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1.5 antlr-runtime 4.5

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```
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* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/TokenFactory.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PredictionMode.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/ANTLRErrorStrategy.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/MultiMap.java
*
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/gui/SystemFontMetrics.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/Pair.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/Tree.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/dfa/DFAState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/TerminalNode.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/Interval.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PredictionContext.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LL1Analyzer.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNConfigSet.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/SetTransition.java
- *
- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/TokenSource.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATN.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/BlockStartState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNConfig.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/UnbufferedCharStream.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/ParseCancellationException.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/AbstractEqualityComparator.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/LogManager.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/Parser.java
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- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PredictionContextCache.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/dfa/LexerDFASerializer.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/OrderedHashSet.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/Triple.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/NotSetTransition.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/ANTLRFileStream.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/BaseErrorListener.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/TokenStream.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/CommonTokenFactory.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/Transition.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/DefaultErrorStrategy.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/ParseTree.java

- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/DiagnosticErrorListener.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java
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- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/StarLoopbackState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/FailedPredicateException.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/LexerNoViableAltException.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/RuleNode.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/EpsilonTransition.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/gui/PostScriptDocument.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/RuleContext.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PredicateTransition.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/BlockEndState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/ProxyErrorListener.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ActionTransition.java
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- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/ANTLRErrorListener.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/RuleStopState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/gui/BasicFontMetrics.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/gui/TreeViewer.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/TestRig.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/IntegerList.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/Trees.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/gui/TreeLayoutAdaptor.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/Recognizer.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/NotNull.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/AbstractPredicateTransition.java
- *
- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/LexerInterpreter.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/AtomTransition.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/dfa/DFASerializer.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/IntStream.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/SemanticContext.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/RangeTransition.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/CommonTokenStream.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/WritableToken.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/DecisionState.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/TokenStreamRewriter.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/Lexer.java
- *
- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/IntervalSet.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/UnbufferedTokenStream.java

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* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/CharStream.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/RuleStartState.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/WildcardTransition.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/ErrorNode.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/OrderedATNConfigSet.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/StarBlockStartState.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/InputMismatchException.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/EmptyPredictionContext.java
*
/antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/IntSet.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/RuleTransition.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/SingletonPredictionContext.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/gui/TreePostScriptGenerator.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/RecognitionException.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/CommonToken.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/EqualityComparator.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/ConsoleErrorListener.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LoopEndState.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/ParserRuleContext.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/NoViableAltException.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PlusBlockStartState.java
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/antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/Nullable.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/Token.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/IntegerStack.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/Array2DHashSet.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/BasicState.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNSerializer.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/BasicBlockStartState.java
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java~
* /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/DoubleKeyMap.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/InterpreterRuleContext.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java
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 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/DecisionInfo.java
 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ErrorInfo.java
 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
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 /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/RuntimeMetaData.java
 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java
 * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
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- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNSimulator.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerChannelAction.java
- *
- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/JFileChooserConfirmOverwrite.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ATNType.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerModeAction.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerCustomAction.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/misc/NullUsageProcessor.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerActionType.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerAction.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
- *
- /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
- * /antlr4-runtime-4-5-sources-jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java

1.6 antlr-runtime 3.5.2

1.7 antlr-runtime 4.5.1

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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/RuntimeMetaData.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
- *
- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ErrorInfo.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/VocabularyImpl.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/Vocabulary.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNSimulator.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerChannelAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
- *
- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerModeAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerActionType.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNType.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java
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- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerCustomAction.java

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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/ParseCancellationException.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/FailedPredicateException.java
- *
- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ConsoleErrorListener.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNSerializer.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/dfa/DFAState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/Pair.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/EmptyPredictionContext.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/RangeTransition.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/RuleTransition.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/BasicState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/Utils.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/RuleStartState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/DiagnosticErrorListener.java

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* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java
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/ antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PredictionMode.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PlusBlockStartState.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ANTLRErrorStrategy.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/BlockEndState.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/DefaultErrorStrategy.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/Array2DHashSet.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ParserRuleContext.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/BlockStartState.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/Triple.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/IntegerStack.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/NotNull.java
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/ antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LoopEndState.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNConfig.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/dfa/DFA.java
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* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LL1Analyzer.java
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* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/UnbufferedCharStream.java
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* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ErrorNode.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/BaseErrorListener.java
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/ antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/Trees.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/RuleNode.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/TokenSource.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/StarBlockStartState.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNConfigSet.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/BailErrorStrategy.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/EqualityComparator.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/Tree.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ActionTransition.java
*
/ antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerATNConfig.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/InputMismatchException.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/Parser.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/TokenStream.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PrecedencePredicateTransition.java
* / antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/SetTransition.java

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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/LexerNoViableAltException.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/RuleContext.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/MurmurHash.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/SingletonPredictionContext.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ANTLRFileStream.java
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- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/RecognitionException.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/RuleStopState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATN.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/MultiMap.java
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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/TokenStreamRewriter.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/IntStream.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/IntSet.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/LogManager.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/dfa/DFASerializer.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
- *
- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/StarLoopbackState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/IntervalSet.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/AtomTransition.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/CommonTokenFactory.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/TokenFactory.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/Token.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/NoViableAltException.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/CommonTokenStream.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ANTLRInputStream.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ANTLRErrorListener.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/IntegerList.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PredictionContext.java
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- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/SemanticContext.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/dfa/LexerDFASerializer.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ParseTreeListener.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/TerminalNode.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/WritableToken.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/OrderedHashSet.java
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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ParseTree.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/TokensStartState.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/EpsilonTransition.java
- *
- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/UnbufferedTokenStream.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ProxyErrorListener.java

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* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PredicateTransition.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/CommonToken.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/OrderedATNConfigSet.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/LexerInterpreter.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/AbstractPredicateTransition.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/Lexer.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/Transition.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/DoubleKeyMap.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/misc/Interval.java
*
/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/WildcardTransition.java
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* /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java

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- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/InterpreterRuleContext.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java
- *
- /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/ParserInterpreter.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
- * /antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java

1.8 cas-client-core 3.2.1

1.9 javax activation api 1.2.0

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1.10 javax-activation 1.2.0

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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;
}
}
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```

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1.11 fast-infosec 1.2.15

1.12 jax-ws-api 2.3.0

1.13 hamcrest-core 1.3

1.14 jaxb-runtime 2.3.1

1.15 okio 1.13.0

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```
* /okio-1-13-0-sources-2-jar/okio/ForwardingTimeout.java
* /okio-1-13-0-sources-2-jar/okio/SegmentedByteString.java
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- * /okio-1-13-0-sources-2-jar/okio/Buffer.java
- * /okio-1-13-0-sources-2-jar/okio/Segment.java
- * /okio-1-13-0-sources-2-jar/okio/ForwardingSource.java
- * /okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java
- * /okio-1-13-0-sources-2-jar/okio/Timeout.java
- * /okio-1-13-0-sources-2-jar/okio/Sink.java

- *
- /okio-1-13-0-sources-2-jar/okio/SegmentPool.java
- * /okio-1-13-0-sources-2-jar/okio/GzipSink.java
- * /okio-1-13-0-sources-2-jar/okio/DeflaterSink.java
- * /okio-1-13-0-sources-2-jar/okio/Okio.java
- * /okio-1-13-0-sources-2-jar/okio/AsyncTimeout.java
- * /okio-1-13-0-sources-2-jar/okio/BufferedSource.java
- * /okio-1-13-0-sources-2-jar/okio/InflaterSource.java
- * /okio-1-13-0-sources-2-jar/okio/BufferedSink.java
- * /okio-1-13-0-sources-2-jar/okio/Source.java
- * /okio-1-13-0-sources-2-jar/okio/RealBufferedSink.java
- * /okio-1-13-0-sources-2-jar/okio/ForwardingSink.java
- * /okio-1-13-0-sources-2-jar/okio/GzipSource.java

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- * /okio-1-13-0-sources-2-jar/okio/Pipe.java
- * /okio-1-13-0-sources-2-jar/okio/HashingSource.java
- * /okio-1-13-0-sources-2-jar/okio/HashingSink.java
- * /okio-1-13-0-sources-2-jar/okio/Options.java

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1.16 resourcelocator 1.0.1

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in path(s):

- * /osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinderImpl.java
- * /osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoaderImpl.java
- * /osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/Activator.java
- * /osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoader.java
- * /osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinder.java

1.17 jcommander 1.30

1.18 grpc-context 1.9.0

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```
* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracer.java
```

* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpan.java
* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanContext.java
* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java
*
/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopScopeManager.java
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1.20 grpc-protobuf-lite 1.9.0

1.21 opencensus-api 0.10.0

1.22 opencensus-contrib-grpc-metrics 0.10.0

1.23 c3p0 0.9.1.1

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1.24 ecj 4.4.2

1.24.1 Available under license :

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1.25 scalap 2.10.0

1.26 reflections 0.9.9

1.27 okio 1.12.0

1.28 joda-convert 1.2

1.28.1 Available under license :

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1.31 reflectasm 1.07

1.32 opentracing-util 0.31.0

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* /opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java

* /opentracing-util-0-31-0-sources-jar/io/opentracing/util/GlobalTracer.java

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1.33 objenesis 1.2

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1.35 jtoml 1.0.0

1.36 okhttp 3.9.0

1.37 paranamer 2.3

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1.40 jzlib 1.0.7

1.41 xsom 20110809

1.42 jeromq 0.3.2

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1.43 typetools 0.3.1

1.44 sesame-rio-datatypes 2.7.16

1.45 sesame-rio-binary 2.7.16

1.46 sesame-rio-nquads 2.7.16

1.47 sesame-rio-trix 2.7.16

1.48 semargl-sesame 0.6.1

1.49 sesame-rio-rdfxml 2.7.16

1.50 jama 1.0.3

1.51 sesame-rio-turtle 2.7.16

1.52 owlapi-impl 4.2.7

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1.53 sesame-rio-n3 2.7.16

1.54 semargl-rdf 0.6.1

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The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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1.60 checker 1.9.13

1.60.1 Available under license :

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Version 3, 29 June 2007

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1.61 jsonld-java 0.5.0

1.62 jep 2.4.2

1.63 sesame-util 2.7.16

1.64 owlapi-api 4.2.7

1.64.1 Available under license :

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1.84 commons-pool 2.4.3

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1.85 jcip-annotation 1.0-1

1.86 javax-inject 1

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- * /javax-inject-1-sources-jar/javax/inject/Inject.java
- * /javax-inject-1-sources-jar/javax/inject/Scope.java
- * /javax-inject-1-sources-jar/javax/inject/Qualifier.java
- * /javax-inject-1-sources-jar/javax/inject/Named.java
- * /javax-inject-1-sources-jar/javax/inject/Provider.java
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1.89 aspectj-tools 1.8.13

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1.90 tiger-types 1.4

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- * /tiger-types-1-4-sources-jar/org/jvnet/tiger_types/TypeVisitor.java
- * /tiger-types-1-4-sources-jar/org/jvnet/tiger_types/Lister.java
- * /tiger-types-1-4-sources-jar/org/jvnet/tiger_types/Types.java
- * /tiger-types-1-4-sources-jar/org/jvnet/tiger_types/ParameterizedTypeImpl.java

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1.91 slf4j 1.7.25

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- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/LoggerFactory.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/spi/LocationAwareLogger.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/MessageFormatter.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMDCBinder.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/SubstituteLogger.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLogger.java
- *
- /slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/Util.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/FormattingTuple.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/MarkerFactory.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/Marker.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MDCAdapter.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarker.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/Logger.java
- * /slf4j-api-1-7-25-sources-jar/org/slf4j/IMarkerFactory.java
- *
- /slf4j-api-1-7-25-sources-jar/org/slf4j/ILoggerFactory.java

1.92 xpp 1.1.4c

1.93 log4j-over-slf4j 1.7.25

1.94 javax-ws-rs-api 2.0.1

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* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/FactoryFinder.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Request.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/MatrixParam.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/OPTIONS.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriInfo.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/RuntimeDelegate.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/CookieParam.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/MessageBodyReader.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/HEAD.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/NewCookie.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriBuilder.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/POST.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DefaultValue.java
 *
 /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ApplicationPath.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/DELETE.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/package-info.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Application.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/QueryParam.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PathParam.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PUT.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Cookie.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Variant.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Consumes.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/FactoryFinder.java
 * /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/HttpHeaders.java

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

1.95 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#getName() getName}). May be
*     <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/JSRInlinerAdapter.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.
*/

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* /asm-5-0-4-sources-jar/org/objectweb/asm/util/Textifier.java

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* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink.properties
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-writer.properties
*
/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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- * /asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/xml/ASMContentHandler.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXClassAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/FrameNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/FieldWriter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Attribute.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/AnnotationNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/FieldVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/VarInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LabelNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Value.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifier.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceFieldVisitor.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Constant.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/JumpInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/MethodVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/Method.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Frame.java

- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/StaticInitMerger.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TypeInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/ParameterNode.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Type.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/NameMapping.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Context.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/ClassWriter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Item.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Handler.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Label.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/ByteVector.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureReader.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InnerClassNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/Handle.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java
- *
- /asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationWriter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Frame.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/Remapper.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Shrinker.java
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java


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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Edge.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Opcodes.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.
*/

```

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`/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java`

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 * /asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifiable.java

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* /asm-5-0-4-sources-jar/org/objectweb/asm/TypePath.java

* /asm-5-0-4-sources-jar/org/objectweb/asm/TypeReference.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.
*/

```

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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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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 <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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- * /asm-5-0-4-sources-jar/org/objectweb/asm/package.html
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/package.html
- * /asm-5-0-4-sources-jar/org/objectweb/asm/commons/package.html
- * /asm-5-0-4-sources-jar/org/objectweb/asm/tree/package.html

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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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1.97 jaxb-api 2.3.1

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1.101 guava 18.0

1.102 gson 2.8.2

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Found in path(s):

```
* /gson-2-8-2-sources-jar/com/google/gson/JsonSyntaxException.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/Streams.java
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```
* /gson-2-8-2-sources-jar/com/google/gson/stream/JsonWriter.java
* /gson-2-8-2-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java
* /gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java
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* /gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java

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* /gson-2-8-2-sources-jar/com/google/gson/internal/LinkedHashMap.java

* /gson-2-8-2-sources-jar/com/google/gson/internal/LinkedTreeMap.java

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* /gson-2-8-2-sources-jar/com/google/gson/internal/\$Gson\$Types.java

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```

* /gson-2-8-2-sources-jar/com/google/gson/LongSerializationPolicy.java
* /gson-2-8-2-sources-jar/com/google/gson/JsonStreamParser.java
* /gson-2-8-2-sources-jar/com/google/gson/FieldAttributes.java
* /gson-2-8-2-sources-jar/com/google/gson/JsonParser.java

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* /gson-2-8-2-sources-jar/com/google/gson/internal/LazilyParsedNumber.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/UnsafeAllocator.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/ConstructorConstructor.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/DateTypeAdapter.java
*
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/TimeTypeAdapter.java

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* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
*
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/TypeAdapters.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-8-2-sources-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-8-2-sources-jar/com/google/gson/TypeAdapter.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

* /gson-2-8-2-sources-jar/com/google/gson/annotations/JsonAdapter.java

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* /gson-2-8-2-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java

* /gson-2-8-2-sources-jar/com/google/gson/GsonBuilder.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonPrimitive.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonArray.java

* /gson-2-8-2-sources-jar/com/google/gson/DefaultDateTypeAdapter.java

*

/gson-2-8-2-sources-jar/com/google/gson/internal/Excluder.java

* /gson-2-8-2-sources-jar/com/google/gson/reflect/TypeToken.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonNull.java

* /gson-2-8-2-sources-jar/com/google/gson/FieldNamingPolicy.java

* /gson-2-8-2-sources-jar/com/google/gson/annotations/Since.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonDeserializationContext.java

* /gson-2-8-2-sources-jar/com/google/gson/annotations/Until.java

* /gson-2-8-2-sources-jar/com/google/gson/internal/ObjectConstructor.java

* /gson-2-8-2-sources-jar/com/google/gson/FieldNamingStrategy.java

* /gson-2-8-2-sources-jar/com/google/gson/Gson.java

* /gson-2-8-2-sources-jar/com/google/gson/InstanceCreator.java

* /gson-2-8-2-sources-jar/com/google/gson/ExclusionStrategy.java

* /gson-2-8-2-sources-jar/com/google/gson/annotations/Expose.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonParseException.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonDeserializer.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonSerializationContext.java

*

/gson-2-8-2-sources-jar/com/google/gson/JsonElement.java

* /gson-2-8-2-sources-jar/com/google/gson/annotations/SerializedName.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonIOException.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonObject.java

* /gson-2-8-2-sources-jar/com/google/gson/JsonSerializer.java
* /gson-2-8-2-sources-jar/com/google/gson/internal/Primitives.java

1.103 antlr 2.7.6

1.104 protobuf-java 3.5.1

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```
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/LongArrayList.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractParser.java  
* /protobuf-java-3-5-1-sources-jar/google/protobuf/api.proto  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/Internal.java  
*  
/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Service.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/Descriptors.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ServiceException.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormat.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/Utf8.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionLite.java  
* /protobuf-java-3-5-1-sources-jar/google/protobuf/type.proto  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtobufArrayList.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistryLite.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/SingleFieldBuilder.java  
* /protobuf-java-3-5-1-sources-jar/google/protobuf/source_context.proto  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatEscaper.java  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatParseLocation.java  
* /protobuf-java-3-5-1-sources-jar/google/protobuf/timestamp.proto  
*  
/protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyFieldLite.java  
* /protobuf-java-3-5-1-sources-jar/google/protobuf/struct.proto  
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/CodedInputStream.java
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- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/FloatArrayList.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLiteToString.java
- * /protobuf-java-3-5-1-sources-jar/google/protobuf/empty.proto
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistry.java
- * /protobuf-java-3-5-1-sources-jar/google/protobuf/duration.proto
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/Parser.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapEntry.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyField.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyStringList.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/UninitializedMessageException.java
- *
- /protobuf-java-3-5-1-sources-jar/com/google/protobuf/RopeByteString.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/RpcController.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java
- * /protobuf-java-3-5-1-sources-jar/google/protobuf/any.proto
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/Extension.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/NioByteString.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageOrBuilder.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessageV3.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteBufferWriter.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteString.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractMessageLite.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/SmallSortedMap.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapField.java
- *
- /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapEntryLite.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnsafeByteOperations.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractMessage.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteOutput.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistryFactory.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnknownFieldSetLite.java
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- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapFieldLite.java
- * /protobuf-java-3-5-1-sources-jar/google/protobuf/wrappers.proto
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/DynamicMessage.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/BlockingRpcChannel.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
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- *
- /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
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- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/BlockingService.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatParseInfoTree.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/WireFormat.java
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/compiler/plugin.proto
- * /protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtocolStringList.java

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* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/BooleanArrayList.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/CodedOutputStream.java
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* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyStringArrayList.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/DoubleArrayList.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/RepeatedFieldBuilderV3.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractProtobufList.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/SingleFieldBuilderV3.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLite.java
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* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/IntArrayList.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageReflection.java
* /protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessage.java

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1.105 xml-beans 2.6.0

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1.106 commons-cli 1.1

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1.120 jaxen 1.1.6

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 * $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 $
*/

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.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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* /jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.java

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/*

* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/IdFunction.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: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNumberExpr.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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* /jaxen-1-1-6-sources-jar/org/jaxen/XPathSyntaxException.java
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 * \$Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo \$
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/StringFunction.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: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleNamespaceContext.java
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```

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* $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 $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicate.java

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* \$Revision: 1245 \$

* \$Date: 2006-11-08 10:52:02 -0800 (Wed, 08 Nov 2006) \$

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* \$Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo \$
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/TextNodeStep.java

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java

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/*

* \$Header\$

* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

*

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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*

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

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.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: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java
```

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```

/*
* $Header$
* $Revision: 1386 $
* $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
*
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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NumberFunction.java
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/*
* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $

```

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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java
```

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```
/*
* $Header$
* $Revision: 1321 $
* $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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```

* \$Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.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: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo \$
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/StackedIterator.java

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

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Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java

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* \$Revision: 1162 \$

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

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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/*

* \$Header\$

* \$Revision: 1193 \$

* \$Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) \$

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* \$Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo \$
*/

Found in path(s):

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

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPlusExpr.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: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/function/StartsWithFunction.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: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /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: 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):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.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: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringBeforeFunction.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: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo \$
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMinusExpr.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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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFilterExpr.java
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* $Revision: 1261 $
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* \$Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo \$
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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/*

* \$Header\$
* \$Revision: 1345 \$
* \$Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) \$

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* \$Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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/*
* \$Header\$
* \$Revision: 1277 \$
* \$Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) \$
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* \$Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo \$

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultBinaryExpr.java

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/*

* \$Header\$

* \$Revision: 1161 \$

* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathException.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: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java

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/*

* \$Header\$

* \$Revision: 1162 \$


```

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

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
```

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```
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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 \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java

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

/*

* \$Header\$

* \$Revision: 1222 \$

* \$Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) \$

*

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*
* \$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java
No license file was found, but licenses were detected in source scan.

```
/*
 * $Header$
 * $Revision: 1237 $
 * $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
 *
 * =====
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*
* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
*/

```

Found in path(s):

```

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

```

```

/*
* $Header$
* $Revision: 1133 $
* $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
*
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*

* \$Id: Axis.java 1133 2006-03-30 13:56:36Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelationalExpr.java
No license file was found, but licenses were detected in source scan.

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

```

Found in path(s):

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/function/ContainsFunction.java
No license file was found, but licenses were detected in source scan.

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```

/*
* $Header$
* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $

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

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java

```

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```
/*
* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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*
* \$Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathReader.java

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* \$Header\$
* \$Revision: 1255 \$
* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$
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 * \$Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$
 */

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingAxisIterator.java
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 * $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):
* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleFunctionContext.java
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* $Header$
* $Revision: 1157 $
* $Date: 2006-06-03 13:07:37 -0700 (Sat, 03 Jun 2006) $
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* \$Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java

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/*

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* \$Revision: 1128 \$

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*

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/ConcatFunction.java
No license file was found, but licenses were detected in source scan.

/*

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

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*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.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):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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/*

* \$Header\$

* \$Revision: 1261 \$

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

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

Found in path(s):
 * /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAbsolutePath.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: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultStep.java

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

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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/*
* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

```

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```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java
```

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```
/*
```

```

* $Header$
* $Revision: 1134 $
* $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
*/

```


Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/Pattern.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):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/NamespaceUriFunction.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 $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/QualifiedName.java

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* $Revision: 1324 $
* $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/function/StringLengthFunction.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*

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

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternParser.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: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

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

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
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: Function.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

`/jaxen-1-1-6-sources-jar/org/jaxen/Function.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):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java

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* \$Header\$

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

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/LocalNameFunction.java

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/*

* \$Header\$

* \$Revision: 1302 \$

* \$Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) \$

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/util/SelfAxisIterator.java

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```
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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):

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

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/*

* \$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 \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PathExpr.java

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

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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 \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/util/SingleObjectIterator.java
No license file was found, but licenses were detected in source scan.

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/UnionPattern.java
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* \$Id: Operator.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Operator.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 $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java
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* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/FalseFunction.java
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/*
$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* \$Header\$

* \$Revision: 1261 \$

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

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

```

Found in path(s):

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnaryExpr.java
No license file was found, but licenses were detected in source scan.

```

```

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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):
* /jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingSiblingAxisIterator.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: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/BinaryExpr.java
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/*

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

```

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAllNodeStep.java

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```
/*
 * $Header$
 * $Revision: 1326 $
 * $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 \$
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/FilterExpr.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: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/RoundFunction.java
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\$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo \$

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPathExpr.java
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```

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

```

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

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* \$Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo \$
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*

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

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.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: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo \$
 */

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/TranslateFunction.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header\$
 * \$Revision: 1171 \$
 * \$Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) \$
 *
 * =====
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*
* $Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $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 $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.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: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java
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* $Revision: 1128 $
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*
* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java

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/*

* \$Header\$

* \$Revision: 1159 \$

* \$Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) \$

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/UnresolvableException.java
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/*
 * $Header$
 * $Revision: 1251 $
 * $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
 *
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*
* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

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

/*
* $Header$
* $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):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.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: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyNodeTest.java

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/NotFunction.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: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/TrueFunction.java

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/*
* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.java
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* $Revision: $
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*
* $Id: $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java

```

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/*

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java

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/*

* \$Header\$

* \$Revision: 1268 \$

* \$Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) \$

*

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*
* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
*/

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.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: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java

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/*

* \$Header\$

* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/LocationPathPattern.java
```

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java

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```
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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 $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PredicateSet.java
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* \$Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableNamespaceAxis.java

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\$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo \$

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* \$Revision: 1334 \$

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*

* \$Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo \$

*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/TokenTypes.java

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java

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* \$Revision: 1370 \$

* \$Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) \$

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 * \$Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo \$
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 * \$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 $
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* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```

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

```

```

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

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

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

/*
* $Header$

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

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java

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* \$Header\$

* \$Revision: 1261 \$

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

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnionExpr.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: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java
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/*

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

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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NamespaceTest.java
No license file was found, but licenses were detected in source scan.

```

```

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* $Header$
* $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 \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingAxisIterator.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: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAndExpr.java

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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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

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Found in path(s):

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/xslt/DocumentFunction.java
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* $Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LangFunction.java
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* $Revision: 1160 $
* $Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/UnsupportedAxisException.java
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/*
* $Header$
* $Revision: 1253 $
* $Date: 2006-11-09 08:39:19 -0800 (Thu, 09 Nov 2006) $
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* \$Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo \$

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* \$Revision: 1156 \$

```

* $Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
*/

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/xom/DocumentNavigator.java
No license file was found, but licenses were detected in source scan.

```
/*
* $Header$
* $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):

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

```

Found in path(s):

```

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathReader.java
No license file was found, but licenses were detected in source scan.

```

```

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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*

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

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/CeilingFunction.java

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

/*

* \$Header\$

* \$Revision: 1162 \$

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

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

Found in path(s):

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

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java

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```

/*
* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $
*/

```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java
```

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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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* /jaxen-1-1-6-sources-jar/org/jaxen/FunctionCallException.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: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EndsWithFunction.java

```

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```
/*
* $Header$
* $Revision: 1248 $
* $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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* \$Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo \$

*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/VariableReferenceExpr.java

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/*

* \$Header\$

```

* $Revision: 1364 $
* $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java

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/*

* \$Header\$

* \$Revision: 1261 \$

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

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.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: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultDivExpr.java

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/*

* \$Header\$

* \$Revision: 1198 \$

* \$Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) \$

*

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* \$Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java

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

/*

* \$Header\$

* \$Revision: 1255 \$

* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
No license file was found, but licenses were detected in source scan.

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```

/*
* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.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: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/UpperFunction.java
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* $Header$
* $Revision: 1128 $
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java
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/*

```

```

* $Header$
* $Revision: 1325 $
* $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
*/

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Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java

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/*

* \$Header\$

* \$Revision: 1273 \$

* \$Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) \$

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* \$Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo \$
*/

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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* \$Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NoNodeTest.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: Token.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java

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* \$Header\$

* \$Revision: 1128 \$

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

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

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

```

Found in path(s):

```

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

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/function/LastFunction.java

```

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```

/*
* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
*
* =====

```

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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

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

/*

```



```

* $Header$
* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
*/

```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java

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/*

* \$Header\$

* \$Revision: 1279 \$

* \$Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) \$

*

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* \$Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo \$
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java

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```
/*
 * $Header$
 * $Revision: 1306 $
 * $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
 *
 * =====
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 *
 * \$Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo \$
 */

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.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: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultExpr.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):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableSelfAxis.java

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* \$Header\$
* \$Revision: 1241 \$
* \$Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) \$
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* \$Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo \$

*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicated.java

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* \$Revision: 1128 \$

* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternHandler.java
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```

/*
* $Header$
* $Revision: 1335 $
* $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java
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/*--
*
* $Id$
*

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 *
 */

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

/*
 * \$Header\$
 * \$Revision: 1255 \$

```

* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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*
* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

```

Found in path(s):

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringAfterFunction.java

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

```
/*
* $Header$
* $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):

* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.java

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```
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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*
* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

```

Found in path(s):

```

* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.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: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLessThanExpr.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: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java
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* \$Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo \$

*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/BooleanFunction.java

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

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* \$Revision: 1396 \$

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* $Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

```

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```
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLessThanEqualExpr.java
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* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* \$Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo \$

*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/CommentNodeStep.java

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/*

* \$Header\$

* \$Revision: 1367 \$

* \$Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) \$

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

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.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: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo \$

*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/DefaultNavigator.java

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/*

* \$Header\$

* \$Revision: 1228 \$

* \$Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) \$

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* \$Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo \$

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/UnionExpr.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: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo \$

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNotEqualsExpr.java

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* \$Revision: 1261 \$

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

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* $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultOrExpr.java
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* $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 \$
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.java

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* \$Revision: 1162 \$

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

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

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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* \$Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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Found in path(s):

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Found in path(s):

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1.123 httpasyncclient 4.1

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1.127 jnr-posix 3.0.27

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1.130 proto-google-common-protos 1.0.0

1.131 easymock 3.2

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1.132 minlog 1.2

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1.134 hazelcast-client 3.8.9

1.135 unirest-java 1.4.5

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1.138 commons-pool 2.2

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1.139 quartz 2.2.1

1.140 cglib-nodep 2.2.2

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1.149 config 1.0.2

1.150 swagger-core 1.5.0

1.151 javax-el-api 2.2.4

1.152 jackson-module-jjsonschema 2.1.0

1.153 jersey-container-servlet-core 2.5.1

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1.159 jersey-container-servlet 2.24.1

1.160 scala-reflect 2.10.0

1.161 jersey-bean-validation 2.24.1

1.162 jersey-guava 2.24.1

1.163 cglib-nodep 3.1

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*****
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1.166 commons-exec 1.3

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1.167 jcl-over-slf4j 1.7.5

1.168 jersey-client 2.24.1

1.169 jersey-common 2.5.1

1.170 guice-assistedinject 4.0

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 */
```

```
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```

```
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 "";
```

}

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1.173 axis 1.4_2

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[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

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[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

JUnit test library (junit-4.11.jar)

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1.180 httpclient-cache 4.2.5

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1.181 asm 4.2

1.182 jetty-http-spi 9.3.27.v20190418

1.183 websocket-servlet 9.3.27.v20190418

1.184 jetty-webapp 9.3.27.v20190418

1.185 websocket-common 9.3.27.v20190418

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1.189 jetty-security 9.3.27.v20190418

1.190 jetty-xml 9.3.27.v20190418

1.191 jetty-client 9.3.27.v20190418

1.192 websocket-api 9.3.27.v20190418

1.193 websocket-client 9.3.27.v20190418

1.194 websocket-server 9.3.27.v20190418

1.195 java-concurrent-hash-trie-map 0.2.23

1.196 xstream 1.2.2

1.197 jsr305 3.0.1

1.198 guice-multibindings 4.0

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1.203 opentracing-spring-web-autoconfigure

0.3.2

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1.216 java-jwt 3.8.3

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1.218 spring-framework 4.3.19.RELEASE

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1.219 metrics-core 4.1.0

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1.221 jtop 1.0.0

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Upstream-Contact: Michael Jones <mj@mikejonesey.co.uk>

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1.225 jetty-plus 9.3.27.v20190418

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1.226 nimbus-jose-jwt 8.9

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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/Ed25519Signer.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Base64Codec.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/Ed25519Verifier.java
*
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/X25519Decrypter.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/ECDHEncrypter.java
*
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/JWKMatcher.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Container.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/CriticalHeaderParamsDeferral.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/PEMEncodedKeyParser.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/ECDSAProvider.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/CipherHelper.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/BoundedInputStream.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWKSecurityContext.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/KeyUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/ECDSA.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/ConcatKDF.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/gen/ECKKeyGenerator.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/JWKSetCache.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/PRFParams.java

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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/CurveBasedJWK.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/ContentCryptoProvider.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/AESCBC.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/gen/JWKGenerator.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/HMAC.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/gen/RSAPKeyGenerator.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/gen/OctetSequenceKeyGenerator.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/RSACryptoProvider.java
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*/
```

Found in path(s):

```
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* nimbus-jose-jwt
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*/
```

Found in path(s):

```
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/gen/OctetKeyPairGenerator.java
No license file was found, but licenses were detected in source scan.
```

```
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*/

Found in path(s):

* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/JWK.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/JWTClaimsVerifier.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/ArrayUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWECryptoParts.java
*
/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/KeyTypeException.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/AbstractJWKSelectorWithSource.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/BadJWSEException.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/ImmutableJWKSet.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWSObject.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/JWTClaimsSetVerifier.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jca/JCAContext.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWEAlgorithm.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JOSEException.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/DefaultResourceRetriever.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/RSASSAVerifier.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/SecurityContext.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JOSEObject.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/MACVerifier.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jca/JCAAware.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Resource.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/KeyException.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/PlainHeader.java
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/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/DirectDecrypter.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEMatcher.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/bc/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/ECParameterTable.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/BadJWTException.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWEHeader.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/JWTClaimsSetTransformer.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWSKeySelector.java

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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWSVerifierFactory.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jca/JWEJCAContext.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/factories/package-info.java
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/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/StandardCharset.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWSVerifierFactory.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/ECDSAVerifier.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/DeflateUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWEEncrypter.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/AbstractRestrictedResourceRetriever.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/ECDSASigner.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/JWTProcessor.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWEDecrypterFactory.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/bc/BouncyCastleProviderSingleton.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/JWKMetadata.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/AlgorithmFamily.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWSVerifier.java
*
/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/KeySourceException.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/RSASSASigner.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/KeyLengthException.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/ClockSkewAware.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/ResourceRetriever.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/KeyUse.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/RSAAEncrypter.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWEDecrypter.java
*
/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/JWTClaimsSet.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/ConfigurableJOSEProcessor.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jca/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/CompressionAlgorithm.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/KeyOperation.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/util/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/ByteUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/PlainJWT.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWEObject.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/ImmutableSecret.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/Header.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JWEKeySelector.java
*
/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/ECDHDecrypter.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/RestrictedResourceRetriever.java

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- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/DateUtils.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/PayloadTransformer.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/Requirement.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWEDecrypterFactory.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/BadJWEException.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/AsymmetricJWK.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/CommonSEHeader.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/JWTProcessorConfiguration.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/X509CertChainUtils.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/MACSigner.java
- *
- /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWEProvider.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/util/DateUtils.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/RSADecrypter.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEProcessor.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/DirectEncrypter.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JOSEProvider.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/KeyConverter.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/EncryptedJWT.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/CriticalHeaderParamsAware.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/RemoteJWKSet.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/proc/ConfigurableJWTProcessor.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/BadJOSEException.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/Algorithm.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/RemoteKeySourceException.java
- *
- /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/RSAPublicKey.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/package-info.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jca/JCASupport.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWSAlgorithm.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/PasswordBasedDecrypter.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/Payload.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/JSONObjectUtils.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/ECKey.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/SecretJWK.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/PlainObject.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/JWT.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/OctetSequenceKey.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/JWKSelector.java
- *
- /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Base64.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/PasswordBasedEncrypter.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/package-info.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/ThumbprintUtils.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JOSEObjectType.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/package-info.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWSProvider.java
- * /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/JWKSource.java

* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWSSigner.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/IntegerUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/JWTParser.java

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1.230 vavr 0.10.2

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Found in path(s):

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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java
*
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/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ViewResolver.java
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jar/org/springframework/web/servlet/mvc/multiaction/PropertiesMethodNameResolver.java
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/SimpleSpringPreparerFactory.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/AbstractUrlMethodNameResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
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*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
* /spring-webmvc-4-3-19-release-sources-1-
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jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
*

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/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/JstlView.java
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/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityConfig.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/velocity/VelocityViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/ValueFormatter.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/AbstractSpringPreparerFactory.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/SmartView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/NestedPathTag.java
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/SpringBeanPreparerFactory.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/SpringLocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java
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* XSLT-driven View that allows for response context to be rendered as the
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*
* <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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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
* /spring-webmvc-4-3-19-release-sources-1-
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/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/LabelTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
* /spring-webmvc-4-3-19-release-sources-1-
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jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/BeanNameViewResolver.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/BindStatus.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/OptionsTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/FormTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/VersionResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/UrlBasedViewResolver.java
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jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
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*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
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jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
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jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
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jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/SelectTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/OptionTag.java
* /spring-webmvc-4-3-19-release-sources-1-

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

```

```

* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/

```

Found in path(s):

```

* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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Found in path(s):

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

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

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jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerExceptionHandlerResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/TransformTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsMultiFormatView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/JstlUtils.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/BindTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractJExcelView.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/LocaleContextResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ThemeTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/ParameterizableViewController.java
*
/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/EvalTag.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/ConfigurableJasperReportsView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/SpringWildcardServletTilesApplicationContext.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/VelocityConfigurerBeanDefinitionParser.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/Controller.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/TilesViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles3/SpringWildcardServletTilesApplicationContext.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/TilesConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsPdfView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/InternalResourceView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/FlashMapManager.java
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.jav
a
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
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/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.j
ava
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsHtmlView.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/support/AbstractControllerUrlHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/TilesView.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/TilesView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xml/MarshallingView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsView.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
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Found in path(s):

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityToolboxView.java
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* /spring-webmvc-4-3-19-release-sources-1-

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jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/ViewResolversBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.java
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*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletModelAttributeMethodProcessor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/AbstractNameValueExpression.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.java
java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java

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* /spring-webmvc-4-3-19-release-sources-1-
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 jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
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 jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyAdviceChain.java
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 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
 * /spring-webmvc-4-3-19-release-sources-1-
 jar/org/springframework/web/servlet/mvc/condition/NameValueExpression.java
 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
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 * /spring-webmvc-4-3-19-release-sources-1-
 jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/DispatcherServlet.java
 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/UrlTag.java
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 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerExecutionChain.java
 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ModelAndView.java
 * /spring-webmvc-4-3-19-release-sources-1-
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 jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
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 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/RequestContext.java
 * /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/MessageTag.java
 * /spring-webmvc-4-3-19-release-sources-1-
 jar/org/springframework/web/servlet/view/document/AbstractXlsView.java
 * /spring-webmvc-4-3-19-release-sources-1-
 jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
 * /spring-webmvc-4-3-19-release-sources-1-
 jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java

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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/Param.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HttpServletBean.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java
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/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
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jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMethodArgumentResolver.java
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/spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerInterceptor.java
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/AbstractController.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceUrlEncodingFilter.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/VersionedResource.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/condition/AbstractMediaTypeExpression.java
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestAttributeMethodArgumentResolver.java
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jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/TilesConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ResourceServlet.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/AbstractVersionStrategy.java
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/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitterAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletCookieValueMethodArgumentResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/LocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceTransformer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/RedirectView.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewResponseBodyAdvice.java
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1.236 yang-common 0.8.1-Beryllium-SR1

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* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/manager/SpringRuntimeManagerFactoryImpl.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/SpringObjectModelResolver.java
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- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/annotations/AnnotationsPostProcessor.java
- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/annotations/AnnotationsUtil.java

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Found in path(s):

* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/KStoreFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/KModuleSpringMarshaller.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/EventListenersFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/EventListenersUtil.java
*
/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/RuntimeManagerFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/LoggerDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KStoreDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/DefinitionParserHelper.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/KieObjectsResolver.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/RuntimeEnvironmentFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/KModuleBeanFactoryPostProcessor.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KieImportDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/LoggerUtil.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/helper/KSessionFactoryBeanHelper.java
*
/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/LoggerFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/KSessionFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/KContainerFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/KModuleFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/EventListenersDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KSessionDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KModuleDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/EnvironmentDefFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/TaskServiceFactoryBean.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KBaseDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/ReleaseIdFactoryBean.java
*
/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/ReleaseIdDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/LoggerAdaptor.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/helper/StatefulKSessionFactoryBeanHelper.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KieSpringNamespaceHandler.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/helper/StatelessKSessionFactoryBeanHelper.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/EnvironmentDefinitionParser.java
* /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/KieImportFactoryBean.java
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- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/HumanTaskSpringTransactionManager.java
- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/KieSpringTransactionManager.java
- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/KieSpringJpaManager.java
- *
- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/AbstractKieSpringJpaManager.java
- * /kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/persistence/SpringTransactionSynchronizationAdapter.java

1.240 spring-instrument 4.3.19.RELEASE

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Found in path(s):

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

1.241 yang-model-api 0.8.1-Beryllium-SR1

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1.243 object-cache-guava 0.8.3-SNAPSHOT

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1.244 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,javax.annotation,org.opendaylight.yangtools.concepts",org.opendaylight.yangtools.util.concurrent;version="0.8.3";uses="com.google.common.base,com.google.common.util.concurrent,javax.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;version="[0.2,1)",javax.annotation,org.opendaylight.yangtools.concepts;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):

* /util-0-8-3-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /util-0-8-3-jar/META-INF/maven/org.opendaylight.yangtools/util/pom.xml

1.245 google-http-client 1.15.0-rc

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Found in path(s):

```
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingInputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/StreamingContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteCountingOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/javanet/MockURLConnection.java
*
 /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/FixedClock.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/EmptyContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonObjectParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/JsonWebSignature.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonFactory.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpEncoding.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingByteArrayOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/JsonWebToken.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/LogRecordingHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonGenerator.java
*
 /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteArrayStreamingContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/IOUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ObjectParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/SslUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Base64.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/StringUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpMediaType.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Clock.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/javanet/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/GZipEncoding.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpEncodingStreamingContent.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/HttpExtensionMethod.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpMethods.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/TestableByteArrayInputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpBackOffIOExceptionHandler.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/apache/MockHttpClient.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sets.java

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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/MockBackOff.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Joiner.java
* /google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/util/TestableByteArrayOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Maps.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Beta.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Collections2.java
* /google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpBackOffUnsuccessfulResponseHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Strings.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/package-info.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/SecurityTestUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/SecurityUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/SSLConnectionFactoryExtension.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonGenerator.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/MockSleeper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Lists.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/MultipartContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sleeper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOffUtils.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonFactory.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Objects.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Charsets.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpIOExceptionHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Throwables.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Preconditions.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteStreams.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NanoClock.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/PemReader.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpRequest.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingStreamingContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/GenericData.java

*

/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/FieldInfo.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/package-info.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/Atom.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UrlEncodedContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpExecuteInterceptor.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/package-info.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/DateTime.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/DataMap.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ClassInfo.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/Xml.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponseInterceptor.java

*

/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockLowLevelHttpResponse.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ApacheHttpResponse.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponseException.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockLowLevelHttpRequest.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/package-info.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/CharEscapers.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/GenericJson.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Key.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/Escaper.java

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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/Json.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockHttpTransport.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/XmlObjectParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/rpc2/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/PercentEscaper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/XmlHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/json/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/XmlNamespaceDictionary.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/UnicodeEscaper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/LowLevelHttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/InputStreamContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpTransport.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpTransport.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/CustomizeJsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpUnsuccessfulResponseHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpHeaders.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/GenericUrl.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/atom/AtomFeedParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UrlEncodedParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/Platform.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ArrayMap.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ContentEntity.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/AbstractAtomFeedParser.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonToken.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonGenerator.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/GenericXml.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/LowLevelHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ApacheHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/json/JsonHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ApacheHttpTransport.java
*

```

/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/package-info.java

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*/

Found in path(s):

* /google-http-client-1-15-0-rc-sources-1-

jar/com/google/api/client/testing/http/MockHttpUnsuccessfulResponseHandler.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ExponentialBackOff.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOff.java

*

/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Types.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ArrayValueMap.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/package-info.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/BasicAuthentication.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NullValue.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpStatusCodes.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonString.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Value.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/ExponentialBackOffPolicy.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpRequestInitializer.java

*

/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/atom/package-info.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/ByteArrayContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/HttpTesting.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/atom/AtomContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/package-info.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractInputStreamContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Data.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/BackOffPolicy.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/FileContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UriTemplate.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpRequestFactory.java

1.246 bson 3.12.4

1.246.1 Available under license :

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 */
```

Found in path(s):

```
* /bson-3-12-4-sources-jar/org/bson/BsonRegularExpression.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonNullCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonDocumentWrapperCodec.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonInt32Converter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
*
/bson-3-12-4-sources-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
* /bson-3-12-4-sources-jar/org/bson/UuidRepresentation.java
* /bson-3-12-4-sources-jar/org/bson/codecs/FloatCodec.java
* /bson-3-12-4-sources-jar/org/bson/internal/UuidHelper.java
* /bson-3-12-4-sources-jar/org/bson/codecs/ObjectIdGenerator.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonStringBuffer.java
* /bson-3-12-4-sources-jar/org/bson/BsonDocumentWrapper.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/LazyPojoCodec.java
* /bson-3-12-4-sources-jar/org/bson/RawBsonDocument.java
* /bson-3-12-4-sources-jar/org/bson/types/CodeWScope.java
* /bson-3-12-4-sources-jar/org/bson/NoOpFieldNameValidator.java
* /bson-3-12-4-sources-jar/org/bson/codecs/DocumentCodecProvider.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoCodec.java
* /bson-3-12-4-sources-jar/org/bson/json/ShellObjectIdConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
*
/bson-3-12-4-sources-jar/org/bson/json/JsonDoubleConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/DiscriminatorLookup.java
```


- * /bson-3-12-4-sources-jar/org/bson/json/Converter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyCodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
- * /bson-3-12-4-sources-jar/org/bson/AbstractBsonWriter.java
- * /bson-3-12-4-sources-jar/org/bson/BsonBinaryReader.java
- * /bson-3-12-4-sources-jar/org/bson/BSONObject.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/configuration/package-info.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertySerialization.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonStringConverter.java
- * /bson-3-12-4-sources-jar/org/bson/internal/CodecCache.java
- * /bson-3-12-4-sources-jar/org/bson/LazyBSONObject.java
- * /bson-3-12-4-sources-jar/org/bson/BasicBSONEncoder.java
- * /bson-3-12-4-sources-jar/org/bson/BSONEncoder.java
- *
- /bson-3-12-4-sources-jar/org/bson/codecs/BsonTypeCodecMap.java
- * /bson-3-12-4-sources-jar/org/bson/json/package-info.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonRegularExpressionCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/LazyMissingCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/ShellTimestampConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java
- * /bson-3-12-4-sources-jar/org/bson/types/Code.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonUndefinedCodec.java
- * /bson-3-12-4-sources-jar/org/bson/package-info.java
- * /bson-3-12-4-sources-jar/org/bson/BasicBSONDecoder.java
- * /bson-3-12-4-sources-jar/org/bson/BsonWriter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonDoubleCodec.java
- * /bson-3-12-4-sources-jar/org/bson/internal/Base64.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonMinKeyCodec.java
- *
- /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/DecoderContext.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonTimestampConverter.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonStreamBuffer.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/UuidCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/MinKeyCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyMetadata.java
- * /bson-3-12-4-sources-jar/org/bson/io/BsonInputMark.java
- * /bson-3-12-4-sources-jar/org/bson/types/Binary.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonInt64Converter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/StringCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonBinaryCodec.java
- * /bson-3-12-4-sources-jar/org/bson/BSONCallbackAdapter.java
- *

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/bson-3-12-4-sources-jar/org/bson/codecs/BsonJavaScriptCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/SymbolCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /bson-3-12-4-sources-jar/org/bson/util/ComputingMap.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyModel.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BooleanCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecRegistry.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonScanner.java
* /bson-3-12-4-sources-jar/org/bson/codecs/IdGenerator.java
* /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/package-info.java
* /bson-3-12-4-sources-jar/org/bson/io/package-info.java
* /bson-3-12-4-sources-jar/org/bson/types/ObjectId.java
* /bson-3-12-4-sources-jar/org/bson/util/package-info.java
* /bson-3-12-4-sources-jar/org/bson/EmptyBSONCallback.java
*
/bson-3-12-4-sources-jar/org/bson/json/ShellMaxKeyConverter.java
* /bson-3-12-4-sources-jar/org/bson/internal/LazyCodec.java
* /bson-3-12-4-sources-jar/org/bson/ByteBuf.java
* /bson-3-12-4-sources-jar/org/bson/json/ShellBinaryConverter.java
* /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoBuilderHelper.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonDocumentCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonDBPointerCodec.java
* /bson-3-12-4-sources-jar/org/bson/FieldNameValidator.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ClassModel.java
* /bson-3-12-4-sources-jar/org/bson/Transformer.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
*
/bson-3-12-4-sources-jar/org/bson/BsonJavaScriptWithScope.java
* /bson-3-12-4-sources-jar/org/bson/codecs/ObjectIdCodec.java
* /bson-3-12-4-sources-jar/org/bson/diagnostics/Logger.java
* /bson-3-12-4-sources-jar/org/bson/codecs/Decimal128Codec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BigDecimalCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonTypeClassMap.java
* /bson-3-12-4-sources-jar/org/bson/io/BsonOutput.java
* /bson-3-12-4-sources-jar/org/bson/diagnostics/SLF4JLogger.java
* /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonInt32Converter.java
* /bson-3-12-4-sources-jar/org/bson/conversions/Bson.java
* /bson-3-12-4-sources-jar/org/bson/LazyBSONCallback.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonWriterSettings.java
* /bson-3-12-4-sources-jar/org/bson/BsonInt32.java
* /bson-3-12-4-sources-jar/org/bson/BsonDocument.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java

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*
/bson-3-12-4-sources-jar/org/bson/RawBsonValueHelper.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/CreatorExecutable.java
* /bson-3-12-4-sources-jar/org/bson/BsonTimestamp.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/Convention.java
* /bson-3-12-4-sources-jar/org/bson/io/BasicOutputBuffer.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonBuffer.java
* /bson-3-12-4-sources-jar/org/bson/BsonMaximumSizeExceededException.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
* /bson-3-12-4-sources-jar/org/bson/codecs/jsr310/package-info.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyAccessor.java
* /bson-3-12-4-sources-jar/org/bson/codecs/ByteArrayCodec.java
* /bson-3-12-4-sources-jar/org/bson/internal/CycleDetectingCodecRegistry.java
* /bson-3-12-4-sources-jar/org/bson/conversions/package-info.java
* /bson-3-12-4-sources-jar/org/bson/json/ShellInt64Converter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/MapCodec.java
*
/bson-3-12-4-sources-jar/org/bson/json/StrictCharacterStreamJsonWriter.java
* /bson-3-12-4-sources-jar/org/bson/json/ShellDateTimeConverter.java
* /bson-3-12-4-sources-jar/org/bson/BsonBinary.java
* /bson-3-12-4-sources-jar/org/bson/json/ShellMinKeyConverter.java
* /bson-3-12-4-sources-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/AtomicLongCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonValueCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/DoubleCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonObjectIdCodec.java
* /bson-3-12-4-sources-jar/org/bson/LazyBSONDecoder.java
* /bson-3-12-4-sources-jar/org/bson/LazyBSONList.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonDecimal128Codec.java
* /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonUndefinedConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyAccessorImpl.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonNullConverter.java
*
/bson-3-12-4-sources-jar/org/bson/BsonUndefined.java
* /bson-3-12-4-sources-jar/org/bson/codecs/BsonInt32Codec.java
* /bson-3-12-4-sources-jar/org/bson/BsonDbPointer.java
* /bson-3-12-4-sources-jar/org/bson/util/Function.java
* /bson-3-12-4-sources-jar/org/bson/types/BSONTimestamp.java
* /bson-3-12-4-sources-jar/org/bson/codecs/LongCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/MapCodecProvider.java
* /bson-3-12-4-sources-jar/org/bson/BSONException.java
* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /bson-3-12-4-sources-jar/org/bson/BsonNumber.java
* /bson-3-12-4-sources-jar/org/bson/codecs/Decoder.java
* /bson-3-12-4-sources-jar/org/bson/Document.java
* /bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecRegistries.java
* /bson-3-12-4-sources-jar/org/bson/json/JsonBooleanConverter.java
* /bson-3-12-4-sources-jar/org/bson/codecs/AtomicIntegerCodec.java

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- * /bson-3-12-4-sources-jar/org/bson/json/JsonJavaScriptConverter.java
- * /bson-3-12-4-sources-jar/org/bson/types/package-info.java
- *
- /bson-3-12-4-sources-jar/org/bson/json/DateTimeFormatter.java
- * /bson-3-12-4-sources-jar/org/bson/types/MinKey.java
- * /bson-3-12-4-sources-jar/org/bson/BasicBSONCallback.java
- * /bson-3-12-4-sources-jar/org/bson/io/ByteBufferBsonInput.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java
- * /bson-3-12-4-sources-jar/org/bson/BsonDouble.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/IterableCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/UuidCodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/UuidCodecHelper.java
- * /bson-3-12-4-sources-jar/org/bson/assertions/package-info.java
- * /bson-3-12-4-sources-jar/org/bson/BsonDateTime.java
- * /bson-3-12-4-sources-jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/CollectibleCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonTokenType.java
- *
- /bson-3-12-4-sources-jar/org/bson/types/MaxKey.java
- * /bson-3-12-4-sources-jar/org/bson/BsonString.java
- * /bson-3-12-4-sources-jar/org/bson/json/ShellRegularExpressionConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/Conventions.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoCodecImpl.java
- * /bson-3-12-4-sources-jar/org/bson/BsonType.java
- * /bson-3-12-4-sources-jar/org/bson/BsonMaxKey.java
- * /bson-3-12-4-sources-jar/org/bson/types/BasicBSONList.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/Encoder.java
- * /bson-3-12-4-sources-jar/org/bson/BsonMinKey.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/NumberCodecHelper.java
- * /bson-3-12-4-sources-jar/org/bson/BsonDocumentWriter.java
- * /bson-3-12-4-sources-jar/org/bson/BsonWriterSettings.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonMaxKeyCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/EncoderContext.java
- *
- /bson-3-12-4-sources-jar/org/bson/BsonReader.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonBinaryConverter.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonDoubleConverter.java
- * /bson-3-12-4-sources-jar/org/bson/BSON.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/ShortCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonSymbolCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonToken.java
- * /bson-3-12-4-sources-jar/org/bson/BSONDecoder.java
- * /bson-3-12-4-sources-jar/org/bson/internal/CodecRegistryHelper.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/DateCodec.java
- * /bson-3-12-4-sources-jar/org/bson/BsonSerializationException.java
- * /bson-3-12-4-sources-jar/org/bson/BsonContextType.java

- * /bson-3-12-4-sources-jar/org/bson/BsonReaderMark.java
- * /bson-3-12-4-sources-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
- * /bson-3-12-4-sources-jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/CodeWithScopeCodec.java
- *
- /bson-3-12-4-sources-jar/org/bson/codecs/CharacterCodec.java
- * /bson-3-12-4-sources-jar/org/bson/BasicBSONObject.java
- * /bson-3-12-4-sources-jar/org/bson/BsonBoolean.java
- * /bson-3-12-4-sources-jar/org/bson/BsonArray.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ClassModelBuilder.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonParseException.java
- * /bson-3-12-4-sources-jar/org/bson/util/ClassMap.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonDateTimeCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/MaxKeyCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/ShellUndefinedConverter.java
- * /bson-3-12-4-sources-jar/org/bson/BsonBinaryWriterSettings.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/RawBsonDocumentCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonTimestampCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonId.java
- *
- /bson-3-12-4-sources-jar/org/bson/codecs/IntegerCodec.java
- * /bson-3-12-4-sources-jar/org/bson/types/Decimal128.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonWriter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoCodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonDecimal128Converter.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonObjectIdConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonReader.java
- * /bson-3-12-4-sources-jar/org/bson/BsonNull.java
- * /bson-3-12-4-sources-jar/org/bson/BsonBinarySubType.java
- * /bson-3-12-4-sources-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
- * /bson-3-12-4-sources-jar/org/bson/BsonInvalidOperationException.java
- * /bson-3-12-4-sources-jar/org/bson/BsonJavaScript.java
- * /bson-3-12-4-sources-jar/org/bson/types/Symbol.java
- * /bson-3-12-4-sources-jar/org/bson/BsonSymbol.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/package-info.java
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- /bson-3-12-4-sources-jar/org/bson/RawBsonArray.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyModelBuilder.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/PatternCodec.java
- * /bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonBooleanCodec.java
- * /bson-3-12-4-sources-jar/org/bson/util/ClassAncestry.java
- * /bson-3-12-4-sources-jar/org/bson/json/StrictJsonWriter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/IterableCodecProvider.java

- * /bson-3-12-4-sources-jar/org/bson/codecs/DocumentCodec.java
- * /bson-3-12-4-sources-jar/org/bson/diagnostics/Loggers.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonInt64Codec.java
- * /bson-3-12-4-sources-jar/org/bson/internal/ProvidersCodecRegistry.java
- * /bson-3-12-4-sources-jar/org/bson/json/ShellDecimal128Converter.java
- *
- /bson-3-12-4-sources-jar/org/bson/codecs/ByteCodec.java
- * /bson-3-12-4-sources-jar/org/bson/BsonDocumentReader.java
- * /bson-3-12-4-sources-jar/org/bson/internal/Optional.java
- * /bson-3-12-4-sources-jar/org/bson/internal/ChildCodecRegistry.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
- * /bson-3-12-4-sources-jar/org/bson/io/BsonInput.java
- * /bson-3-12-4-sources-jar/org/bson/BsonElement.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonStringCodec.java
- * /bson-3-12-4-sources-jar/org/bson/io/Bits.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonSymbolConverter.java
- * /bson-3-12-4-sources-jar/org/bson/types/StringRangeSet.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BinaryCodec.java
- * /bson-3-12-4-sources-jar/org/bson/BsonInt64.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonValueCodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/BSONCallback.java
- * /bson-3-12-4-sources-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
- *
- /bson-3-12-4-sources-jar/org/bson/BsonDecimal128.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreator.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/AtomicBooleanCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
- * /bson-3-12-4-sources-jar/org/bson/types/CodeWithScope.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/ValueCodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/json/JsonMode.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeParameterMap.java
- * /bson-3-12-4-sources-jar/org/bson/BsonBinaryWriter.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeData.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/CodeCodec.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
- * /bson-3-12-4-sources-jar/org/bson/io/OutputBuffer.java
- *
- /bson-3-12-4-sources-jar/org/bson/diagnostics/JULLogger.java
- * /bson-3-12-4-sources-jar/org/bson/diagnostics/package-info.java
- * /bson-3-12-4-sources-jar/org/bson/StringUtils.java
- * /bson-3-12-4-sources-jar/org/bson/AbstractBsonReader.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/BsonArrayCodec.java
- * /bson-3-12-4-sources-jar/org/bson/BsonValue.java
- * /bson-3-12-4-sources-jar/org/bson/ByteBufferIO.java
- * /bson-3-12-4-sources-jar/org/bson/BsonObjectId.java
- * /bson-3-12-4-sources-jar/org/bson/codecs/package-info.java

* /bson-3-12-4-sources-jar/org/bson/codecs/Codec.java

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* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdGenerators.java

* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdGenerator.java

* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java

* /bson-3-12-4-sources-jar/org/bson/codecs/BsonCodec.java

* /bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java

*

/bson-3-12-4-sources-jar/org/bson/codecs/BsonCodecProvider.java

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Found in path(s):

* /bson-3-12-4-sources-jar/org/bson/util/AbstractCopyOnWriteMap.java
* /bson-3-12-4-sources-jar/org/bson/util/CopyOnWriteMap.java
* /bson-3-12-4-sources-jar/org/bson/assertions/Assertions.java

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Found in path(s):

* /bson-3-12-4-sources-jar/org/bson/codecs/jsr310/Js310CodecProvider.java
* /bson-3-12-4-sources-jar/org/bson/codecs/jsr310/InstantCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /bson-3-12-4-sources-jar/org/bson/codecs/jsr310/LocalDateCodec.java

*

/bson-3-12-4-sources-jar/org/bson/codecs/jsr310/LocalTimeCodec.java

1.247 mongodb-driver 3.12.4

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* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterables.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionClock.java

*

/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterableFactory.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ClientSession.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/TransactionBody.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ForEachHelper.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8FindIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8MongoIterableFactory.java

*

/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/package-info.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java

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```

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```

* /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/JSONCallback.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoClientImpl.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/MapReduceOutput.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Crypts.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoClients.java
*
/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/MongoClient.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCollectionCountOptions.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCollectionUpdateOptions.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteException.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoClientDelegate.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/WriteResult.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/InsertOptions.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSFindIterable.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/CommandMarker.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/Mongo.java
*
/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoChangeStreamCursor.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DefaultDBDecoder.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/MongoOptions.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/JSONSerializers.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/MongoCursorAdapter.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/package-info.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/OperationExecutor.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/LazyDBCallback.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/AbstractObjectSerializer.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/ParallelScanOptions.java

```

- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterableImpl.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/WriteConcernError.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteError.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoDatabase.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/gridfs/GridFSDBFile.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteRequestBuilder.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/MongoClientOptions.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteUpsert.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBCollectionObjectFactory.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/LazyDBObject.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientEncryptionImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/AggregationOutput.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCreateViewOptions.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/QueryOperators.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteHelper.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/DistinctIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/FindIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/Cursor.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/AcknowledgedBulkWriteResult.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBObjectCollationHelper.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MappingIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ListCollectionsIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCollectionFindAndModifyOptions.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/CollectionInfoRetriever.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/UpdateRequest.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/Util.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ListIndexesIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBCollection.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MapReduceIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/GroupCommand.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkUpdateRequestBuilder.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoClientFactory.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/ReflectionDBObject.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/package-info.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBDecoder.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBCallback.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/FindIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/CompoundDBObjectCodec.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSBucket.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/QueryBuilder.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoCursor.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java

- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteResult.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBObject.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/JSONParseException.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBEncoderAdapter.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCollectionFindOptions.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/gridfs/GridFSFile.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/gridfs/GridFS.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoCollection.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/InsertRequest.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoDatabaseImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/jndi/MongoClientFactory.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBCursor.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DefaultDBCallback.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Crypt.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DefaultDBEncoder.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/RemoveRequest.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/DistinctIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/package-info.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/MongoURI.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ListDatabasesIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/AggregationOptions.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBDecoderFactory.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/MongoClientURI.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ListIndexesIterable.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/gridfs/GridFSInputFile.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/MapReduceCommand.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/AggregateIterableImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/Bytes.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/KeyManagementService.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/vault/ClientEncryptions.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/ReplaceRequest.java
- *
- /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/SimpleMongoClients.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBEncoderFactory.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionBinding.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSBuckets.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/WriteRequest.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/CryptConnection.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/ReplicaSetStatus.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/CryptBinding.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/CommandResult.java
- * /mongodb-driver-3-12-4-sources-jar/com/mongodb/UnacknowledgedBulkWriteResult.java

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* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCollectionDistinctOptions.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ChangeStreamIterable.java
*
/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/jndi/package-info.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/JSON.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/ObjectSerializer.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/SimpleMongoClient.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBAddress.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MapReduceIterable.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/KeyRetriever.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/vault/package-info.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/AggregateIterable.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoMappingCursor.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBDecoderAdapter.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/vault/ClientEncryption.java
*
/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MongoClient.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DB.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/util/ClassMapBasedObjectSerializer.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBEncoderFactoryAdapter.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/BulkWriteOperation.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBEncoder.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/LazyDBList.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/gridfs/package-info.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/LazyDBDecoder.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCollectionRemoveOptions.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSUploadStream.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/gridfs/CLI.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/LazyDBEncoder.java
* /mongodb-driver-3-12-4-sources-jar/com/mongodb/DBCallbackFactory.java
*
/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoCollectionImpl.java

```

1.248 mongodb-driver-core 3.12.4

1.248.1 Available under license :

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

```

/*
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* Copyright 2017 Tom Bentley
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*/

```

Found in path(s):

```

* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/authentication/SaslPrep.java
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```

```

/*
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* Copyright (c) 2008-2014 Atlassian Pty Ltd
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*/

```

Found in path(s):

```

* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/assertions/Assertions.java
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```

```

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* limitations under the License.
*

```

```

* Original Work: MIT License, Copyright (c) [2015-2018] all contributors
* https://github.com/marianobarrios/tls-channel
*/
/**
 * 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,
 * with respect to non-blocking responses, see {@link #write(ByteBuffer)}
 * for more details.
 *
 * @param srcs The buffers from which bytesProduced are to be retrieved
 * @param offset The offset within the buffer array of the first buffer from
 * which bytesProduced are to be retrieved; must be non-negative and no
 * larger than <tt>srcs.length</tt>
 * @param length The maximum number of buffers to be accessed; must be
 * non-negative and no larger than <tt>srcs.length</tt>
 * &nbsp;-&nbsp;<tt>offset</tt>
 * @return The number of bytesProduced written, contrary to the behavior specified
 * in {@link ByteChannel}, this method never returns 0, but throws
 * {@link WouldBlockException}
 * @throws IndexOutOfBoundsException If
the preconditions on the <tt>offset</tt> and
 * <tt>length</tt> parameters do not hold
 * @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
 */
/**
 * Reads a sequence of bytesProduced from this channel into a subsequence of the
 * given buffers.
 *
 * <p>
 * See {@link ScatteringByteChannel#read(ByteBuffer[], int, int)} for more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different

```

than the interface specification,

- * with respect to non-blocking responses, see {@link #read(ByteBuffer)} for
- * more details.
- *
- * @param dsts The buffers into which bytesProduced are to be transferred
- * @param offset The offset within the buffer array of the first buffer into
- * which bytesProduced are to be transferred; must be non-negative and no
- * larger than <tt>dsts.length</tt>
- * @param length The maximum number of buffers to be accessed; must be
- * non-negative and no larger than <tt>dsts.length</tt>
- * - <tt>offset</tt>
- * @return The number of bytesProduced read, or <tt>-1</tt> if the channel has
- * reached end-of-stream; contrary to the behavior specified in
- * {@link ByteChannel}, this method never returns 0, but throws
- * {@link WouldBlockException}
- * @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
- * <tt>length</tt> parameters do not hold
- * @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):

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java

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 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/AsyncConnection.java

- * /mongodb-driver-core-3-12-4-sources-


```

jar/com/mongodb/internal/connection/UsageTrackingInternalConnection.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/FsyncUnlockOperation.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/WriteProtocol.java
*
/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoClientException.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterType.java
* /mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitorFactory.java
* /mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/async/AsyncAggregateResponseBatchCursor.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/SnappyCompressor.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/BsonDocumentWrapperHelper.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/netty/NettyStream.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/CommandSucceededEvent.java
*
/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/InsertManyOptions.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/geojson/codecs/GeoJsonCodecProvider.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ClusterClock.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/ValidationLevel.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/CommandReadOperation.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/GetMoreProtocol.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/WriteError.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/session/BaseClientSessionImpl.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ChangeEvent.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/ValidationAction.java
*
/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/WriteConcernResult.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/BucketGranularity.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/CommandResultArrayCodec.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/selector/ServerAddressSelector.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/DBRefCodec.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/AggregateOperation.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/CommandFailedEvent.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/async/SingleResultCallback.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/DefaultClusterableServerFactory.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ClusterListener.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java
*
/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/bulk/InsertRequest.java
* /mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/InternalConnectionFactory.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/MessageSettings.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/bulk/IndexRequest.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/FindOneAndReplaceOptions.java

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- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/UpdateMessage.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ConnectionPoolWaitQueueEnteredEvent.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/geojson/MultiPolygon.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/AsyncQueryBatchCursor.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterConnectionMode.java
- *
- /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/Authenticator.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ConnectionId.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/result/DeleteResult.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ZlibCompressor.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/SocketStream.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/ReplaceOneModel.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/Tag.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoQueryException.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/DecimalFormatHelper.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoSocketWriteException.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/IndexMap.java
- *
- /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/client/model/CountStrategy.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/Time.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/management/package-info.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/SocketSettings.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/package-info.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/Field.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/Compressor.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/CommandResultBaseCallback.java
- *
- /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterFactory.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/selector/PrimaryServerSelector.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterDescription.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/changestream/package-info.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/DefaultAuthenticator.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/ReadOperation.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/BucketAutoOptions.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/MergeOptions.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/StreamFactoryFactory.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/binding/AsyncClusterBinding.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoClientSettings.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/UpdateUserOperation.java
- *
- /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/geojson/codecs/MultiLineStringCodec.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/Operations.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/BucketOptions.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/UpdateOneModel.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoServerException.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ConnectionListener.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/DeleteOptions.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/netty/NettyStreamFactoryFactory.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/package-info.java
- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ConnectionPoolEventMulticaster.java
- *
- /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/binding/ClusterBinding.java
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* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoChangeStreamException.java
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- * <https://github.com/marianobarrios/tls-channel>

*/

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- * /mongodb-driver-core-3-12-4-sources-

- jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java

*

- /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java

- * /mongodb-driver-core-3-12-4-sources-

- jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java

- * /mongodb-driver-core-3-12-4-sources-

- jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java

- * /mongodb-driver-core-3-12-4-sources-

- jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java

- * /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java

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/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
* /mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
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* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/annotations/ThreadSafe.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
*/

```

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* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java

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* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/OperationReadConcernHelper.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ReadConcernHelper.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/package-info.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/AbortTransactionOperation.java
*
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/CommitTransactionOperation.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNull.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNullApi.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/TransactionOperation.java
* /mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/TransactionOptions.java

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* /mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/Nullable.java

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1.249 nimbus-jose-jwt 7.9

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* /drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/DecisionTableProviderImpl.java
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* /drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/ExternalSpreadsheetCompiler.java
* /drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/xls/NullSheetListener.java
* /drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/InputType.java
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* /drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/SpreadsheetCompiler.java
* /drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/xls/PropertiesSheetListener.java

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1.252 drools-osgi-integration 6.5.0.Final

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jar/org/drools/osgi/spring/OsgiKModuleBeanFactoryPostProcessor.java
* /drools-osgi-integration-6-5-0-final-sources-1-jar/org/drools/osgi/compiler/OsgiKieModule.java
* /drools-osgi-integration-6-5-0-final-sources-1-jar/org/drools/osgi/spring/OsgiApplicationContextFactory.java

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1.253 drools-templates 6.5.0.Final

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* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/DataProvider.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/ObjectDataCompiler.java
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- * /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/DataProviderCompiler.java
- * /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/ArrayCell.java

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* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultTemplateColumn.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DRLJavaEmitter.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Functions.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultTemplateRuleBase.java
*
/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Consequence.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateContainer.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/ColumnFactory.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Import.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DecisionTableParseException.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateColumn.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Global.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/AbstractColumn.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Row.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/LongColumn.java
*
/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Rule.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Column.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DRLOutput.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/BooleanColumn.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultTemplateContainer.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/BooleanCell.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/ArrayColumn.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Generator.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/RuleTemplate.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DRLElement.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultGenerator.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/StringColumn.java
*
/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DataListener.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/LongCell.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Condition.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateRuleBase.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/SnippetBuilder.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Queries.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateDataListener.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Cell.java
* /drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/StringCell.java
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1.254 shiro-crypto-cipher 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

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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>).

1.255 shiro-crypto-hash 1.6.0

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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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1.263 spring-retry 1.0.3.RELEASE

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Found in path(s):

* /spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-jar/META-

INF/maven/org.springframework.cloud/spring-cloud-circuitbreaker-spring-retry/pom.xml

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Found in path(s):

* /spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-

jar/org.springframework.cloud/circuitbreaker/springretry/SpringRetryCircuitBreaker.java

* /spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-

jar/org.springframework.cloud/circuitbreaker/springretry/SpringRetryCircuitBreakerFactory.java

*

/spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-

jar/org.springframework.cloud/circuitbreaker/springretry/SpringRetryAutoConfiguration.java

* /spring-cloud-circuitbreaker-spring-retry-1-0-3-release-sources-

jar/org.springframework.cloud/circuitbreaker/springretry/SpringRetryConfigBuilder.java

1.264 hibernate-commons-annotations

3.2.0.Final

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```
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 */
```

Found in path(s):

```
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XMember.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/SimpleTypeEnvironment.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/annotationfactory/AnnotationProxy.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/CompoundTypeEnvironment.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XClass.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXProperty.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
```

```

jar/org/hibernate/annotations/common/reflection/java/generics/TypeFactory.java
*
/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/AnnotationReader.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXAnnotatedElement.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XProperty.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XMethod.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXArrayType.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXSimpleType.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXPackage.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXMethod.java
*
/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/TypeEnvironment.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/annotationfactory/AnnotationDescriptor.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XPackage.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/Pair.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/IdentityTypeEnvironment.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXCollectionType.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/TypeSwitch.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/ReflectionUtil.java
*
/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/ApproximatingTypeEnvironment.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/annotationfactory/AnnotationFactory.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/ReflectionManager.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXClass.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/TypeUtils.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/generics/TypeEnvironmentFactory.java

```

```

* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXMember.java
*
/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaReflectionManager.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaAnnotationReader.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/AssertionFailure.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXType.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/Filter.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/util/StringHelper.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-jar/org/hibernate/annotations/common/Version.java
* /hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/util/ReflectHelper.java
*
/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XAnnotatedElement.java

```

1.265 javassist 3.20.0-GA

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```

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```

Found in path(s):

```

* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/CompileError.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java

```

```

*
/javassist-3-20-0-ga-sources-1-jar/javassist/Modifier.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/Handler.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/ClassPath.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ByteArray.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/Opcodes.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
*
/javassist-3-20-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/ClassMap.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformAccessArrayField.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Loader.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Expr.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/CodeGen.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/runtime/DotClass.java
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/javassist-3-20-0-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/FieldInfo.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/ProxyObject.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/StackMap.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ExceptionTable.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypeData.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/Proxy.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/RemoteRef.java
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/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Subroutine.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/Javac.java

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- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ConstPool.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/LoaderClassPath.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/LocalVariableAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/MapMaker.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/Transformer.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/CodeAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Reflection.java
- *
- /javassist-3-20-0-ga-sources-1-jar/javassist/NotFoundException.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtField.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtMethod.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/NewExpr.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/CannotReflectException.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformAfter.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ExceptionsAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformNew.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/web/Viewer.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtClassType.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Frame.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/ClassMetaobject.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ClassFilePrinter.java
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- /javassist-3-20-0-ga-sources-1-jar/javassist/expr/Expr.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/ClassPool.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/SerialVersionUID.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Metaobject.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/ProxyFactory.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/BasicBlock.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ByteStream.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/JvstCodeGen.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/URLClassPath.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ConstantAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java
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- /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Type.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/FieldDecl.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformCall.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/util/HotSwapper.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/SymbolTable.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ClassFileWriter.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtArray.java

- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtMember.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/EnclosingMethodAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java
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- /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/InstanceOfExpr.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/expr/NewExpr.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/LongVector.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AccessFlag.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/SoftValueHashMap.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/Descriptor.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtNewMethod.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ProceedHandler.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtNewConstructor.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/expr/MethodCall.java
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- /javassist-3-20-0-ga-sources-1-jar/javassist/expr/ExprEditor.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformWriteField.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/ClassPoolTail.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypedBlock.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Symbol.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/MemberResolver.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformReadField.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Compiler.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CodeConverter.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Inner.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CannotCompileException.java
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- /javassist-3-20-0-ga-sources-1-jar/javassist/tools/framedump.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/Loader.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/JvstTypeChecker.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Sample.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Variable.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtNewClass.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/CodeIterator.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/CtNewNestedClass.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/CannotCreateException.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/StringL.java
- * /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AnnotationsAttribute.java

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/javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Cflow.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/KeywordTable.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/Translator.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/MethodInfo.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Util.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolFactory.java
*
/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/InnerClassesAttribute.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/NewArray.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPool.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/ArrayInit.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/Bytecode.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/web/BadHttpRequest.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/BadBytecode.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/CtConstructor.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/web/Webserver.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java
*
/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/CtBehavior.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/Lex.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/TokenId.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SourceFileAttribute.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/Parser.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/SubroutineScanner.java
*
/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/Dump.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ClassFile.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/LineNumberAttribute.java

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* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/ClassClassPath.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/CtClass.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/Callback.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/Cast.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java
*

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/javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Desc.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/BinExpr.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/Instanceof.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java

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Found in path(s):

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* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*
/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java

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* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
*
/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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1.267 xz 1.5

1.267.1 Available under license :

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

```
/*
 * XZFormatException
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/XZFormatException.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/XZOutputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/simple/SimpleFilter.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMAEncoder.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/HC4.java

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

/*

* SHA256

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/check/SHA256.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/DeltaEncoder.java

* /xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaEncoder.java

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

/*

* LZMAEncoderFast

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMAEncoderFast.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexBase.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2OutputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Encoder.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/CountingInputStream.java

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

/*

* BCJOptions

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/BCJOptions.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/RawCoder.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/SimpleInputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/LZDecoder.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/simple/PowerPC.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/index/BlockInfo.java
No license file was found, but licenses were detected in source scan.

/*
* EncoderUtil
*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/common/EncoderUtil.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/SingleXZInputStream.java

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

/*

* IA64Options

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/IA64Options.java

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

/*

* Check

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/check/Check.java

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

/*

* FinishableWrapperOutputStream

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/FinishableWrapperOutputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/PowerPCOptions.java
No license file was found, but licenses were detected in source scan.

/*
* ARMThumbOptions
*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/ARMThumbOptions.java
No license file was found, but licenses were detected in source scan.

/*
* LZMA2Options
*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Options.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/SeekableInputStream.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/XZ.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/UnsupportedOptionsException.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* LZMADecoder
*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMADecoder.java

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

/*

* DeltaOptions

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/DeltaOptions.java

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

/*

* X86Options

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/X86Options.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Coder.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):

* /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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/FilterEncoder.java
No license file was found, but licenses were detected in source scan.

/*
* IndexEncoder
*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexEncoder.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/SimpleOutputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/Matches.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/FilterDecoder.java

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

```
/*
 * UncompressedLZMA2OutputStream
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/UncompressedLZMA2OutputStream.java

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

```
/*
 * StreamFlags
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/common/StreamFlags.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/BCJCoder.java

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

/*

* FilterOptions

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/FilterOptions.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/check/CRC32.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeDecoder.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeCoder.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* CountingOutputStream
*
* 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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/CountingOutputStream.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/simple/X86.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMACoder.java

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

/*

* SeekableXZInputStream

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/SeekableXZInputStream.java

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

/*

* CorruptedInputException

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/CorruptedInputException.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/Hash234.java

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

/*

* LZMA2Decoder

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Decoder.java

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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/simple/IA64.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/common/DecoderUtil.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMAEncoderNormal.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/CRC32Hash.java

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

```
/**
 * 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):

```

* /xz-1-5-sources-2-jar/org/tukaani/xz/package-info.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):

```

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/BT4.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* DeltaCoder
*
* 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):

```

* /xz-1-5-sources-2-jar/org/tukaani/xz/DeltaCoder.java
* /xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaCoder.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/MemoryLimitException.java
```

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

```
/*
 * SeekableFileInputStream
 *
 * 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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/SeekableFileInputStream.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/State.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeDecoderFromBuffer.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeDecoderFromStream.java

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

/*

* BCJ filter for little endian ARM 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/simple/ARM.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lzma/Optimum.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/SPARCOptions.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/simple/SPARC.java

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

```
/*
 * DeltaInputStream
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/DeltaInputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/lz/LZEncoder.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):

* /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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/BlockOutputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/check/CRC64.java

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

```
/*
 * XZIOException
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/XZIOException.java

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

```
/*
 * IndexIndicatorException
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/IndexIndicatorException.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/BCJEncoder.java

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

```
/*
 * DeltaOutputStream
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/DeltaOutputStream.java

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

/*

* IndexRecord

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexRecord.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/>>

*

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* You can do whatever you want with this file.

*/

Found in path(s):

* /xz-1-5-sources-2-jar/org/tukaani/xz/LZMAInputStream.java

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

/*

* BlockInputStream

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/BlockInputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/ARMOptions.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexDecoder.java

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

/*
* XZInputStream
*
* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/XZInputStream.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/check/None.java

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

```
/*
 * RangeEncoder
 *
 * 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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeEncoder.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * DeltaDecoder
 *
 * 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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/DeltaDecoder.java
* /xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaDecoder.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):

```
* /xz-1-5-sources-2-jar/org/tukaani/xz/common/Util.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * FinishableOutputStream
 *
 * 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/FinishableOutputStream.java

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

/*

* BCJDecoder

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/BCJDecoder.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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/FilterCoder.java

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

/*

* IndexHash

*

* 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):

* /xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexHash.java

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1.270 springsource-org-apache-xerces 2.9.1

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/**

```

```

    * Checks if this content model has had its min/maxOccurs values reduced for
    * purposes of speeding up UPA. If
so, this content model should not be used
    * for any purpose other than checking unique particle attribution
    *
    * @return a boolean that says whether this content has been compacted for UPA
    */

```

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* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
*


```

/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
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```

```

/**
* DOM Level 3 LS CR - Experimental.
* Create a new 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

- * `null`.
- * <p>Note: For W3C XML Schema [[- * , applications must use the value
- * `"http://www.w3.org/2001/XMLSchema"`. For XML DTD \[\[- * applications must use the value
- * `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- * are outside the scope of the W3C and therefore should recommend an
- * absolute URI in order to use this method.
- * @return The newly created `LSParser` object. This
- * `LSParser` is either synchronous or asynchronous
- * depending on the value of the `mode` argument.
- * <p>Note: By default, the newly created `LSParser`
- * does not contain a `DOMErrorHandler`, i.e. the value of
- * the "\\[null. However, implementations\\]\\(http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler\\)
- * may provide a default error handler at creation time. In that case,
- * the initial value of the `"error-handler"` configuration
- * parameter on the new created `LSParser` contains a
- * reference to the default error handler.
- * @exception DOMException
- * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
- * not supported.
- */\]\(http://www.w3.org/TR/2000/REC-xml-20001006/\)](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)

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- * /com-springsource-org-apache-xerces-2-9-1-sources-
- jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
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*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
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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 Declations Consistent.
*/

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- jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
- *
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- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/AttrImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXInputSource.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-
- jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-
- jar/org/apache/xerces/impl/xs/models/XSCMRepeatingLeaf.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/validation/EntityState.java
- *
- /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLFontElementImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-
- jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/NotationImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-
- jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLBElement.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
- * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/PSVIProvider.java
- *
- /com-springsource-org-apache-xerces-2-9-1-sources-
- jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/LocatorProxy.java
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 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLSelectElement.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
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 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/CMBuild.java
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 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
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 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xni/parser/XMLDTDCContentModelFilter.java
 *
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLWmlElement.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLRefreshElement.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java
 *
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/SecuritySupport.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java

* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java
 *
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/NodeListCache.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSAnnotation.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/AttributePSVI.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSTerm.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLTdElement.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLCardElement.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
 *
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
 *
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/XMLLocatorWrapper.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/EncodingMap.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/OutputFormat.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
 *
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
 * /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/Method.java
 No license file was found, but licenses were detected in source scan.

cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.

Found in path(s):

* /com-springsource-org-apache-xerces-2-9-1-sources-

jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties

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Found in path(s):

* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/datatypes/package.html

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Found in path(s):

* /com-springsource-org-apache-xerces-2-9-1-sources-

jar/org/apache/xerces/dom/DOMImplementationListImpl.java

1.271 swagger-models 1.5.0

1.271.1 Available under license :

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```
package io.swagger.models;

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

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

public class Info {
    private String description;
    private String version;
    private String title;
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new HashMap<String, Object>();

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

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

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

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

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

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

public String getDescription() {
    return description;
}

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

public String getVersion() {
    return version;
}

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

public String getTitle() {
    return title;
}

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

public String getTermsOfService() {
    return termsOfService;
}

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

public Contact getContact() {
    return contact;
}

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



```

public License getLicense() {
    return license;
}

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

public Info mergeWith(Info info) {
    if (info != null) {
        if (this.description == null) {
            this.description = info.description;
        }
        if (this.version == null) {
            this.version = info.version;
        }
        if (this.title == null) {
            this.title = info.title;
        }
        if (this.termsOfService == null) {
            this.termsOfService = info.termsOfService;
        }
        if (this.contact == null) {
            this.contact = info.contact;
        }
        if (this.license == null) {
            this.license = info.license;
        }
        if (this.vendorExtensions == null) {
            this.vendorExtensions = info.vendorExtensions;
        }
    }
    return this;
}

```

@JsonAnyGetter

```

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

```

@JsonAnySetter

```

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

```

@Override

```

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

```

@Override

```

public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    Info other = (Info) obj;
    if (contact == null) {
        if (other.contact != null) {
            return false;
        }
    } else if (!contact.equals(other.contact)) {
        return false;
    }
    if (description == null) {
        if (other.description != null) {
            return false;
        }
    } else if (!description.equals(other.description)) {
        return false;
    }
    if (license == null) {
        if (other.license != null) {
            return false;
        }
    } else if (!license.equals(other.license)) {

```

```

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

```

Found in path(s):

* /swagger-models-1-5-0-sources-jar/io/swagger/models/Info.java

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

```
package io.swagger.models;
```

```

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

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

```

```

    }

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

    public String getName() {
        return name;
    }

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

    public String getUrl() {
        return url;
    }

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

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

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

```

```

    }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    return true;
}
}

```

Found in path(s):

* /swagger-models-1-5-0-sources-jar/io/swagger/models/License.java

1.272 antlr-runtime 3.5

1.272.1 Available under license :

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```

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*/

Found in path(s):

* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/PositionTrackingStream.java

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*/

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* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/Profiler.java

* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreePatternLexer.java

* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/BufferedTreeNodeStream.java

* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeIterator.java

* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ParserRuleReturnScope.java

* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/RuleReturnScope.java

*

```

/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/TokenSource.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MismatchedTokenException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugTreeParser.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeRewriter.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ClassicToken.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/CommonTreeAdaptor.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/ParseTree.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/misc/FastQueue.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugParser.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/FailedPredicateException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/UnwantedTokenException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MismatchedNotSetException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeAdaptor.java
*
/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeFilter.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/BaseTreeAdaptor.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/NoViableAltException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeRuleReturnScope.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MismatchedTreeNodeException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MismatchedSetException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ANTLRStringStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/Token.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeParser.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/Tree.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/BitSet.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/misc/IntArray.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/BufferedTokenStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/CommonTreeNodeStream.java
*
/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/misc/Stats.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/ParseTreeBuilder.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeVisitorAction.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/TokenStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/LegacyCommonTokenStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MismatchedRangeException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/CommonTree.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/Lexer.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteRuleTokenStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/CommonErrorNode.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugTreeNodeStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugEventListener.java
*
/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugTreeAdaptor.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteRuleSubtreeStream.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeWizard.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MissingTokenException.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreePatternParser.java
* /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/TraceDebugEventListener.java

```

- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/SerializedGrammar.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/DOTTreeGenerator.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ANTLRInputStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/TokenRewriteStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteEarlyExitException.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/DFA.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/CharStreamState.java
- *
- /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/CommonToken.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/EarlyExitException.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeNodeStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ANTLRReaderStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/CommonTokenStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteEmptyStreamException.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugEventSocketProxy.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/Parser.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/CharStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/misc/LookaheadStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugEventRepeater.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ANTLRFileStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugTokenStream.java
- *
- /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/BaseTree.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/BlankDebugEventListener.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugEventHub.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/BaseRecognizer.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/RemoteDebugEventSocketListener.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteCardinalityException.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/IntStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeVisitor.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/UnbufferedTokenStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/RecognitionException.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteRuleNodeStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/RecognizerSharedState.java
- *
- /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteRuleElementStream.java
- * /antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/Tracer.java

1.273 hamcrest-core 1.1

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/TiedMapEntry.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/AbstractMapEntry.java
*
  /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/UnmodifiableMapEntry.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/AbstractKeyValue.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/DefaultKeyValue.java
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* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java

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*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ArrayIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ArrayListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/LoopingIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EnumerationIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UniqueFilterIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/ComparatorChain.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ObjectArrayIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/CollatingIterator.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/UnmodifiableListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/FilterListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/SingletonIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ProxyIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ProxyListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/IteratorEnumeration.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/TransformIterator.java
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- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FactoryUtils.java
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- /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/DefaultMapBag.java
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/DoubleOrderedMap.java
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/SequencedHashMap.java
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BufferUnderflowException.java
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BoundedCollection.java
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/TransformerUtils.java
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- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/StringValueTransformer.java
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```
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NonePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AnyPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/SwitchTransformer.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/OnePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/IfClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FunctorUtils.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AllPredicate.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/DefaultedMap.java

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Found in path(s):

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/AbstractSortedMapDecorator.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/TypedList.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/TypedBuffer.java

*

/commons-collections-3-2-sources-2-

jar/org/apache/commons/collections/bidimap/UnmodifiableOrderedBidiMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/AbstractDualBidiMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/PredicatedSet.java

* /commons-collections-3-2-sources-2-

jar/org/apache/commons/collections/bidimap/AbstractOrderedBidiMapDecorator.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BoundedMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/SortedBidiMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/SynchronizedList.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/DualHashBidiMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/AbstractBagDecorator.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/DualTreeBidiMap.java

*

/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/UnmodifiableBidiMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/AbstractLinkedMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/PredicatedBag.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/PredicatedSortedSet.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/UnmodifiableMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TransformedBag.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/AbstractIteratorDecorator.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/FixedSizeSortedMap.java

```

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/CompositeSet.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/AbstractOrderedMapDecorator.java
*
    /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ResettableIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TransformedSortedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/PredicatedSortedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/TransformedBuffer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/UnmodifiableCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/TypedSortedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/AbstractSetDecorator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/AbstractBidiMapDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/AbstractListDecorator.java
*
    /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/SynchronizedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/HashMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/FixedSizeList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/KeyValue.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/LazySortedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedBidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/PredicatedSortedMap.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/AbstractListIteratorDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/PredicatedCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/TransformedSortedSet.java
*
    /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/TypedCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ResettableListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/SynchronizedSet.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/MapIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/SynchronizedCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/TypedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/UnmodifiableList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/UnmodifiableEntrySet.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/TransformedList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/PredicatedList.java
*
    /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/TypedSet.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/AbstractBufferDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/LinkedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/UnmodifiableSortedSet.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/AbstractMapDecorator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/collection/UnmodifiableBoundedCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/BooleanComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/TransformedSet.java

```

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/UnmodifiableSortedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/FixedSizeMap.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/LazyList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/UnmodifiableBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/MultiKey.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/CircularFifoBuffer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/PredicatedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/LazyMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/AbstractSortedBagDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/SingletonMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/Flat3Map.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/IdentityMap.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/UnmodifiableSortedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/UnmodifiableSet.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/UnmodifiableSortedBidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/UnmodifiableOrderedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/IterableMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TypedSortedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/SynchronizedSortedSet.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/AbstractOrderedMapIteratorDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/TransformedCollection.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/EnumerationUtils.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/AbstractSortedSetDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/TypedSortedSet.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/AbstractMapIteratorDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/SynchronizedBuffer.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/collection/AbstractCollectionDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Unmodifiable.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TypedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/CompositeMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/SynchronizedSortedBag.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/UnmodifiableBuffer.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/AbstractSortedBidiMapDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/PredicatedBuffer.java
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Found in path(s):

- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/package.html
- *
- /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/overview.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/package.html
- * /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/package.html

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/TreeList.java

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```

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FastTreeMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ClosureTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/UniquePredicate.java
*
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FactoryTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TruePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/PrototypeFactory.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/SynchronizedPriorityQueue.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NotNullPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/PriorityBuffer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FalsePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EntrySetMapIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/WhileClosure.java

```

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedMap.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InstantiateFactory.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/MapTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FunctorException.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ChainedTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FastHashMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TransformerClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NOPClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Closure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionClosure.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedMapIterator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/comparators/ComparableComparator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/comparators/TransformingComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NullPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TransformedPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/NullComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InstanceofPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/OrPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InvokerTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/LRUMap.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ListUtils.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/comparators/FixedOrderComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Transformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ChainedClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TransformerPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/EqualPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AndPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/MultiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Bag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionTransformer.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ReferenceMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ConstantTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NullIsFalsePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/DefaultMapEntry.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BinaryHeap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ForClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/PredicateTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NullIsExceptionPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Predicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/IdentityPredicate.java

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ConstantFactory.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/PriorityQueue.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/ReverseComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/CompositeCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/CloneTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NotPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NullIsTruePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/SwitchClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ArrayStack.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionFactory.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NOPTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InstantiateTransformer.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/LRUMap.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/NodeCachingLinkedList.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/CollectionUtils.java

```

*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/MapUtils.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/TreeBidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/AbstractLinkedList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FastArrayList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/SetUniqueList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BeanMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/MultiValueMap.java
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* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/set/AbstractSerializableSetDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ObjectGraphIterator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/collection/AbstractSerializableCollectionDecorator.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EmptyOrderedMapIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/AbstractEmptyIterator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/list/AbstractSerializableListDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/PredicateDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EmptyIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EmptyOrderedIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EmptyListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/LoopingListIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/MapBackedSet.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/CaseInsensitiveMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EmptyMapIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/MultiKeyMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/ReferenceIdentityMap.java

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```
*/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/StaticBucketMap.java
*/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TreeBag.java
*/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/HashBag.java
*/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/CursorableLinkedList.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/StaticBucketMap.java
*/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BufferUtils.java
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```
*/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/ReverseListIterator.java
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1.277 aspectjrt 1.9.4

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1.278 xml-schema-core 2.2.3

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1.279 httpcore 4.4.1

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1.280 hk2-config 2.5.0-b05

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1.281 model 2.5.0-b05

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1.285 hk2-core-module 2.5.0-b05

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- * /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
- * /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailMessage.java

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```
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jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
*
/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/CronTriggerBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/SimpleTriggerBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
*
/spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/JobDetailBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
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* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/javamail/JavaMailSender.java
*
/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailPreparationException.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/SimpleMailMessage.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailAuthenticationException.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
*
/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailSendException.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailSender.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailException.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /spring-context-support-3-2-8-release-sources-1-

```

jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/mail/javamail/MimeMessagePreparator.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/cache/jcache/JCacheCache.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
*
/spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailParseException.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/cache/jcache/JCacheManagerFactoryBean.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/ui/velocity/CommonsLoggingLogSystem.java
*
/spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /spring-context-support-3-2-8-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheCache.java
* /spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/JobDetailAwareTrigger.java

```

1.287 hk2-runlevel 2.5.0-b05

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1.288 aopalliance-repackaged 2.5.0-b05

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1.289 javax-inject 2.5.0-b05

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* /javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Named.java

* /javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Scope.java

* /javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Qualifier.java

* /javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Singleton.java

*

/javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Inject.java

* /javax-inject-2-5-0-b05-sources-2-jar/javax/inject/package-info.java

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1.290 hk2-utils 2.5.0-b05

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1.291 hk2 2.5.0-b05

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1.292 hk2-locator 2.5.0-b05

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*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

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*/
/**
 * 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):

```
* /asm-all-repackaged-2-5-0-b05-sources-1-
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```
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/AnalyzerAdapter.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.

*/

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/**

* Creates a new JSRInliner. <i>Subclasses must not use this

* constructor</i>. Instead, they must use the

* {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}

* version.

*

* @param mv

*

the <code>MethodVisitor</code> to send the resulting inlined

* method code to (use <code>null</code> for none).

```

* @param access
*     the method's access flags (see {@link Opcodes}). This
*     parameter also indicates if the method is synthetic and/or
*     deprecated.
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see {@link Type}).
* @param signature
*     the method's signature. May be <tt>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     {@link Type#getInternalName() getInternalName}). May be
*     <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

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* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXClassAdapter.java
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* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXAdapter.java
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* /asm-all-repackaged-2-5-0-b05-sources-1-

```

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jar/org/glassfish/hk2/external/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/ClassReader.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/commons/Method.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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jar/org/glassfish/hk2/external/org/objectweb/asm/commons/CodeSizeEvaluator.java
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jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/Subroutine.java
*
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* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/signature/SignatureVisitor.java
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jar/org/glassfish/hk2/external/org/objectweb/asm/commons/SignatureRemapper.java
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/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/signature/SignatureWriter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/VarInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Attribute.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/MethodRemapper.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Frame.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/AnnotationWriter.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Label.java

```



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* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Handle.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LabelNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/FrameNode.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/Printer.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/ConstantPool.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/ASMifier.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/ParameterNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Edge.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Type.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/Shrinker.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Item.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/AnnotationRemapper.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceFieldVisitor.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/InnerClassNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-

```

```

jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/FieldNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LineNumberNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceClassVisitor.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/InsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/InsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/Remapper.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/Frame.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/AnnotationVisitor.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/IntInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/Constant.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/ByteVector.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/RemappingSignatureAdapter.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceSignatureVisitor.java

```

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* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/FieldWriter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/LocalVariablesSorter.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/ClassVisitor.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/MethodNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/signature/SignatureReader.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/InsnList.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/ClassRemapper.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Handler.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/NameMapping.java
* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Opcodes.java
*
/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/AnnotationNode.java
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/****

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- * THE POSSIBILITY OF SUCH DAMAGE.
- */
- /**
- * Constructs a new {@link LocalVariableAnnotationNode}. *Subclasses must*
- * not use this constructor*.* 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
- * `null` 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):

```

* /asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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```

Found in path(s):

```

* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/Textifiable.java
* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/ASMifiable.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):

* /asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/ClassNode.java

1.294 ojdbc 6

1.294.1 Available under license :

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or the Oracle proprietary type oracle.xdb.XMLType.

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* /ojdbc-6-sources-1-jar/oracle/jdbc/defaultConnectionProperties.properties

1.295 netty 3.9.0.Final

1.295.1 Available under license :

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1.296 json4s-ext 3.2.5

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 */
```

Found in path(s):

```
* /json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/JodaTimeSerializers.scala
* /json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/EnumSerializer.scala
```


1.297 json4s-jackson 3.2.5

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1.298 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 scalabeans isn't a custom build
  // checkSnapshotDependencies,
  inquireVersions,
  runTest,
  setReleaseVersion,
  commitReleaseVersion,
  tagRelease,
  setNextVersion,
  commitNextVersion
)

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

```


1.299 json4s-native 3.2.5

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 */
```

Found in path(s):

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

1.300 json4s-ast 3.2.5

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 */
```

Found in path(s):

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

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

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Found in path(s):

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

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

1.301 swagger-core 1.3.5

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*/

Found in path(s):

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

1.302 json4s-core 3.2.5

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```

Found in path(s):

- * /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Formats.scala
- * /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/package.scala
- * /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Xml.scala
- * /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Extraction.scala

1.303 libthrift 0.9.2

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1.304 spring-boot-autoconfigure

1.5.12.RELEASE

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```

Found in path(s):

```
* /spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/flyway/FlywayMigrationInitializer.java  
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/package-  
info.java  
* /spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/metadata/CommonsDbc2DataSourcePoolMetadata.java  
*  
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mail/package-  
info.java  
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
```



```

jar/org/springframework/boot/autoconfigure/hazelcast/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/MustacheEnvironmentCollector.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cassandra/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/solr/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/websocket/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/web/MustacheView.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/groovy/template/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/reactor/ReactorAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/SecurityAuthorizeMode.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/web/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/admin/package-
info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisMode.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/thymeleaf/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/solr/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/AutoConfigureBefore.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/JCacheManagerCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/DataSourcePoolMetadataProvider.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnJava.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConfigurationCustomizer.java

```

```

* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/jpa/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/aop/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/ErrorProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraRepositoriesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/package-
info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/BootGlobalAuthenticationConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/JacksonHttpMessageConvertersConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/JwtAccessTokenConverterConfigurer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/SecurityDataConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cloud/CloudAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnJndi.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/package-
info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/jpa/EntityManagerFactoryDependsOnPostProcessor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/gson/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hateoas/HateoasProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/DataSourcePoolMetadataProviders.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/flyway/FlywayMigrationStrategy.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/cassandra/package-info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-

```

```

jar/org/springframework/boot/autoconfigure/mail/MailProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/NonRecursivePropertyPlaceholderHelper.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/integration/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/rest/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/AbstractRepositoryConfigurationSourceSupport.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jersey/package-
info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/AutoConfigurationPackage.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/AutoConfigureOrder.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/AuthoritiesExtractor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/logging/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/liquibase/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jooq/SpringTransactionProvider.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jackson/package-info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnResource.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jooq/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jmx/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cloud/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/reactor/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/redis/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/GsonHttpMessageConvertersConfiguration.java
*

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```

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/NoOpCacheConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/amqp/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConnectionFactoryConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/flyway/FlywayDataSource.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/template/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisNoOpBindingRegistry.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/dao/package-
info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/social/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jooq/SpringTransaction.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/template/TemplateAvailabilityProvider.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/EnableOAuth2Sso.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/context/ConfigurationPropertiesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/groovy/template/GroovyTemplateProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/template/AbstractTemplateViewResolverProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastInstanceFactory.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/MongoClientDependsOnBeanFactoryPostProcessor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jmx/ParentAwareNamingStrategy.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/DefaultErrorAttributes.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/MustacheResourceTemplateLoader.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/ErrorHandler.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/flyway/package-
info.java
*

```

```

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/activemq/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jooq/JooqProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/TomcatDataSourcePoolMetadata.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hateoas/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/package-info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafTemplateAvailabilityProvider.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/SecurityAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mongo/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/MustacheTemplateAvailabilityProvider.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/web/SpringDataWebAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/DataSourcePoolMetadata.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/web/package-info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/orm/jpa/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mobile/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jmx/JmxAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/AutoConfigureAfter.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/ErrorAttributes.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/context/package-info.java
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*/

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Found in path(s):

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/HikariDataSourcePoolMetadata.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesRegistrar.java
*
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/websocket/JettyWebSocketContainerCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializedEvent.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/solr/SolrProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/gson/GsonAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/websocket/TomcatWebSocketContainerCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializerPostProcessor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/websocket/UndertowWebSocketContainerCustomizer.java
*
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/template/TemplateLocation.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesRegistrar.java
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- * limitations under the License.
- */

Found in path(s):

- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jackson/JacksonAutoConfiguration.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/JndiConnectionFactoryAutoConfiguration.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/RedisRepositoriesAutoConfigureRegistrar.java
- *
- /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jersey/ResourceConfigCustomizer.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ErrorMvcAutoConfiguration.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/transaction/PlatformTransactionManagerCustomizer.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationExcludeFilter.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/kafka/KafkaProperties.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mail/JndiSessionConfiguration.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/XADataSourceAutoConfiguration.java
- *
- /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceBeanCreationFailureAnalyzer.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2SsoDefaultConfiguration.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mustache/web/MustacheViewResolver.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnCloudPlatform.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/SecurityFilterAutoConfiguration.java
- * /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/JmsAutoConfiguration.java

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cassandra/CassandraProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mobile/DeviceResolverAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/freemarker/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mobile/DeviceDelegatingViewResolverAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/JdbcSessionConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/HttpEncodingAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/JtaProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/JspTemplateAvailabilityProvider.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/BackgroundPreinitializer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ResourceCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/aop/AopAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/kafka/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/h2/H2ConsoleAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2SsoCustomConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/FixedPrincipalExtractor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/FacebookAutoConfiguration.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cassandra/CassandraAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/AbstractNestedCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/domain/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/MustacheAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnWebApplicationCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastConfigResourceCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-

```



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jar/org/springframework/boot/autoconfigure/cache/GenericCacheConfiguration.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/WebClientAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/batch/JobLauncherCommandLineRunner.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/domain/EntityScanPackages.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/logging/ConditionEvaluationReportMessage.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseRepositoriesRegistrar.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/couchbase/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/webservices/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/kafka/ConcurrentKafkaListenerContainerFactoryConfigurer.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/integration/IntegrationAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/EhCacheCacheConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseDataAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/redis/RedisProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnProperty.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnMissingClass.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoRestTemplateCustomizer.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/SpringSocialTokenServices.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionOutcome.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/template/AbstractViewResolverProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/DefaultJmsListenerContainerFactoryConfigurer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/SharedMetadataReaderFactoryContextInitializer.java

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*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnResourceCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/integration/IntegrationAutoConfigurationScanRegistrar.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/diagnostics/analyzer/NoSuchBeanDefinitionFailureAnalyzer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/StoreType.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnJavaCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/SocialProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/HttpMessageConverters.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/sendgrid/SendGridProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mobile/SitePreferenceAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/HazelcastSessionConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseConfigurerAdapterConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/HashMapSessionConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mongo/embedded/EmbeddedMongoProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/PrincipalExtractor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/AuthenticationManagerConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/HazelcastCacheConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/InfinispanCacheConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/thymeleaf/AbstractThymeleafViewResolverConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/couchbase/OnBootstrapHostsCondition.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/jpa/JpaRepositoriesAutoConfigureRegistrar.java

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/couchbase/CouchbaseProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/DataSourcePoolMetadataProvidersConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/JndiJtaConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/GuavaCacheConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/domain/EntityScan.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/AtomikosJtaConfiguration.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/DispatcherServletAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/websocket/WebSocketAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/NoOpSessionConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/AbstractDataSourcePoolMetadata.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jackson/JacksonProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jersey/JerseyAutoConfiguration.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/elasticsearch/jest/JestAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceBuilder.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/couchbase/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/HttpEncodingProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/FixedAuthoritiesExtractor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jackson/Jackson2ObjectMapperBuilderCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/domain/EntityScanner.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseDataSource.java
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jar/org/springframework/boot/autoconfigure/session/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/batch/BatchDatabaseInitializer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesAutoConfiguration.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnCloudPlatformCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/TwitterAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastJpaDependencyAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/amqp/RabbitAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraRepositoriesAutoConfigureRegistrar.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/LinkedInAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReport.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/WebMvcRegistrationsAdapter.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/SocialAutoConfigurerAdapter.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/solr/SolrAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseDataProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/sendgrid/SendGridAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/DefaultErrorViewResolver.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jRepositoriesAutoConfigureRegistrar.java

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/JdbcTemplateAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/info/ProjectInfoAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/IgnoredRequestCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/HazelcastInstanceConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/metadata/CommonsDbcpDataSourcePoolMetadata.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheConfigurations.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/neo4j/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/EmbeddedDataSourceConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/OAuth2AutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/AbstractDependsOnBeanFactoryPostProcessor.java
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jar/org/springframework/boot/autoconfigure/AbstractDatabaseInitializer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/MongoRepositoriesAutoConfigureRegistrar.java
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jar/org/springframework/boot/autoconfigure/web/ExceptionHandler.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConnectionFactoryFactory.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
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jar/org/springframework/boot/autoconfigure/webservices/WebServicesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/groovy/template/GroovyTemplateAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/logging/AutoConfigurationReportLoggingInitializer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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jar/org/springframework/boot/autoconfigure/condition/OnExpressionCondition.java
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mongo/MongoAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/web/ConditionalOnEnabledResourceChain.java
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jar/org/springframework/boot/autoconfigure/data/rest/RepositoryRestMvcAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/MultipartAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisEmbeddedServerConfiguration.java
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jar/org/springframework/boot/autoconfigure/template/TemplateAvailabilityProviders.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/validation/package-info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/websocket/WebSocketContainerCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/JdbcSessionDatabaseInitializer.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/SsoSecurityConfigurer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/JmsProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/HttpMessageConvertersAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mobile/DeviceDelegatingViewResolverFactory.java

```

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

```

Found in path(s):

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/rest/SpringBootRepositoryRestConfigurer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jooq/JooqExceptionTranslator.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/orm/jpa/JpaBaseConfiguration.java
*

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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/ldap/LdapRepositoriesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/EmbeddedServletContainerAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jooq/JooqAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/SessionProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadataLoader.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/authserver/AuthorizationServerProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mongo/embedded/EmbeddedMongoAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnClassCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/authserver/OAuth2AuthorizationServerConfiguration.j
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jar/org/springframework/boot/autoconfigure/amqp/RabbitProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/TwitterProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mongo/MongoProperties.java
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/SpringBootWebSecurityConfiguration.java

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/AnyNestedCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/AutoConfigurationImportEvent.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/EnableAutoConfigurationImportSelector.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/amqp/SimpleRabbitListenerContainerFactoryConfigurer.java
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/social/SocialWebAutoConfiguration.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/validation/PrimaryDefaultValidatorPostProcessor.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hateoas/HypermediaHttpMessageConverterConfiguration.java
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/MongoDataAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/elasticsearch/jest/JestProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceTransactionManagerAutoConfiguration.java
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/TransactionManagerCustomizers.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mustache/MustacheProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-

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jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerTemplateAvailabilityProvider.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/ldap/package-info.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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ava
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/DefaultUserInfoRestTemplateFactory.java
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jar/org/springframework/boot/autoconfigure/ldap/embedded/EmbeddedLdapAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/cache/JCacheCacheConfiguration.java
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jar/org/springframework/boot/autoconfigure/data/ldap/LdapDataAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/info/ProjectInfoProperties.java
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jar/org/springframework/boot/autoconfigure/jdbc/JndiDataSourceAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/SpringBootApplication.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/ImportAutoConfigurationImportSelector.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jersey/JerseyProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/orm/jpa/DatabaseLookup.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/NarayanaJtaConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/ldap/LdapAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoRestTemplateFactory.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ldap/package-
info.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReportAutoConfigurationImportListener
.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/MessageSourceAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchDataAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-

```

jar/org/springframework/boot/autoconfigure/security/oauth2/resource/JwtAccessTokenConverterRestTemplateCustomizer.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizers.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jDataAutoConfiguration.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/orm/jpa/JpaProperties.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/ImportAutoConfiguration.java

*

/spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafProperties.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoTokenServices.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/cache/HazelcastJCacheCustomizationConfiguration.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/condition/SpringBootCondition.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/web/WebMvcProperties.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/web/WebMvcValidator.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/webservices/WebServicesProperties.java

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Found in path(s):

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/security/SecurityPrerequisite.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/batch/JobExecutionExitCodeGenerator.java

```
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnNotWebApplication.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/jpa/JpaRepositoriesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/batch/JobExecutionEvent.java
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Found in path(s):

```
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/BasicErrorController.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisXAConnectionFactoryConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CouchbaseCacheConfiguration.java
*

/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/WebMvcAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/SessionAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/SearchStrategy.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryFactory.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/EnableOAuth2SsoCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnBeanCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/SessionCondition.java
*
```

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/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/BeanTypeRegistry.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/AbstractErrorController.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/redis/RedisAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/session/RedisSessionConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/flyway/FlywayAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/SecurityProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/EmbeddedDatabaseConnection.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/context/MessageSourceAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/ResourceProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/batch/BatchAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2RestOperationsConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnPropertyCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/ServerPropertiesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/ServerProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraDataAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheType.java

```

1.305 spring-boot 1.5.12.RELEASE

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Found in path(s):

- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ExitCodeGenerator.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/NarayanaRecoveryManagerBean.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/NestedConfigurationProperty.java
- *
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletComponentRegisteringPostProcessor.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/ParentContextApplicationContextInitializer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/ColorConverter.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosProperties.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletContextInitializerBeans.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/SpringBootServletInitializer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/ConfigFileApplicationListener.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/UndertowEmbeddedServletContainer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/yaml/SpringProfileDocumentMatcher.java
- *
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/LogbackLoggingSystem.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/CompositeResourceManager.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/analyzer/BindFailureAnalyzer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/NarayanaProperties.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/DelegatingApplicationListener.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/ConfigurationProperties.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/JarResourceManager.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/YamlConfigurationFactory.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ErrorResponse.java
- *
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/SpringApplicationBuilder.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/analyzer/BeanCurrentlyInCreationFailureAnalyzer.java


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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonComponentModule.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/TypeExcludeFilter.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerCustomizerBeanPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/EventPublishingRunListener.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/support/ServletContextApplicationContextInitializer.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedErrorHandler.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringApplication.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/cloud/CloudFoundryVcapEnvironmentPostProcessor.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ErrorHandlerRegistrarBeanPostProcessor.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/ConfigurationWarningsApplicationContextInitializer.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiPropertySource.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/admin/SpringApplicationAdminMXBean.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/SkipPatternJarScanner.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/info/GitProperties.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/validation/MessageInterpolatorFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/annotation/DeterminableImports.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggerConfigurationComparator.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/ColorConverter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggerConfiguration.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/EnvironmentConverter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/ErrorHandlerFilterConfiguration.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/Log4J2LoggingSystem.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/validation/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedWebappClassLoader.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/annotation/package-info.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/AbstractLoggingSystem.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JacksonJsonParser.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/FailureAnalyzers.java
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Found in path(s):

- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationPreparedEvent.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/package-info.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PatternPropertyNamePatternsMatcher.java
- *
- /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/package-info.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/package-info.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/LogbackConfigurator.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/context/event/ApplicationEnvironmentPreparedEvent.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/package-info.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/jta/atomikos/AtomikosXADataSourceWrapper.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonSimpleJsonParser.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/package-info.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/package-info.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/jta/bitronix/BitronixXAConnectionFactoryWrapper.java
- *
- /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/context/embedded/undertow/UndertowDeploymentInfoCustomizer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/EnumerableCompositePropertySource.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/java/package-info.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/jta/atomikos/AtomikosDependsOnBeanFactoryPostProcessor.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/StartupInfoLogger.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/yaml/package-info.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/jta/bitronix/BitronixXADataSourceWrapper.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/Banner.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/context/embedded/EmbeddedServletContainerInitializedEvent.java
- *
- /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/context/embedded/jetty/JettyServerCustomizer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/liquibase/package-info.java
- * /spring-boot-1-5-12-release-sources-
- jar/org/springframework/boot/context/embedded/undertow/UndertowBuilderCustomizer.java
- * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/package-info.java

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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/StringToCharArrayConverter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/bitronix/BitronixDependentBeanFactoryPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertyNamePatternsMatcher.java
*
/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/atomikos/AtomikosXAConnectionFactoryWrapper.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/liquibase/SpringPackageScanClassResolver.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedWebApplicationContext.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/DefaultPropertyNamePatternsMatcher.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/SpringApplicationEvent.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/package-info.java
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Found in path(s):

```

* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/cloud/CloudPlatform.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/SpringBootJoranConfigurator.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootVersion.java
*

```

```

/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonJsonParser.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationPid.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiStyle.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/SpringProfileAction.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBinding.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerCustomizer.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/XmlEmbeddedWebApplicationContext.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/liquibase/CommonsLoggingLiquibaseLogger.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/lang/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonParserFactory.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertyOrigin.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/atomikos/AtomikosConnectionFactoryBean.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationFailedEvent.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationRunner.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/XAConnectionFactoryWrapper.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/XADataSourceWrapper.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/builder/ParentContextCloserApplicationListener.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingInitializationContext.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiColor.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/PropertySourceLoader.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootBanner.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/RelaxedBindingNotWritablePropertyException.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/EnableConfigurationProperties.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonParser.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/env/SpringApplicationJsonEnvironmentPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/CommandLineRunner.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/InetAddressEditor.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainer.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/admin/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiBackground.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/hibernate/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/log4j2/WhitespaceThrowablePatternConverter.java

```

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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/OriginCapablePropertyValue.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/cloud/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosDataSourceBean.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/AnnotationConfigEmbeddedWebApplicationContext.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/DeferredLog.java
*
/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/DeprecatedConfigurationProperty.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationArguments.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/bitronix/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationReadyEvent.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationBeanFactoryMetaData.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationTemp.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/log4j2/ExtendedWhitespaceThrowablePatternConverter.java
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Found in path(s):

```

* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/YamlJsonParser.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/WebApplicationContextServletContextAwareProcessor.java
*
/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/config/DelegatingApplicationContextInitializer.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatConnectorCustomizer.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessorRegistrar.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/java/SimpleFormatter.java

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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LogLevel.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerException.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/ExtendedWhitespaceThrowableProxyConverter.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/WhitespaceThrowableProxyConverter.java
*
/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatContextCustomizer.java
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Found in path(s):

```

* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/system/EmbeddedServerPortFileWriter.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedServletContainerFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonObjectDeserializer.java
*
/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedServletContainer.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/liquibase/LiquibaseServiceLocatorApplicationListener.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/system/ApplicationPidFileWriter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedNames.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedConversionService.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/undertow/UndertowEmbeddedServletContainerFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jdbc/DatabaseDriver.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedServletContainerFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertiesConfigurationFactory.java

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*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatResources.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiOutput.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ServletComponentScanRegistrar.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/ErrorHandler.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/PropertySourcesLoader.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/BasicJsonParser.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/client/RestTemplateBuilder.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/MultipartConfigFactory.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertySourcesPropertyValues.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedServletContainer.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/ApplicationContextHeaderFilter.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/config/AnsiOutputApplicationListener.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/AbstractEmbeddedServletContainerFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingApplicationListener.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/java/JavaLoggingSystem.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedPropertyResolver.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/MimeMappings.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/EnvironmentPostProcessor.java

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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletRegistrationBean.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/OrderedRequestContextFilter.java
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/hibernate/SpringNamingStrategy.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/BeanDefinitionLoader.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/AbstractConfigurableEmbeddedServletContainer.java
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 /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedContext.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/analyzer/PortInUseFailureAnalyzer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/DataSourceXAResourceRecoveryHelper.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonComponent.java
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/analyzer/ConnectorStartFailureAnalyzer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/NarayanaXADataSourceWrapper.java
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ResourceBanner.java
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatErrorPage.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/system/package-info.java
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationHome.java
 * /spring-boot-1-5-12-release-sources-
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/NarayanaConfigurationBean.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/lang/UsesUnsafeJava.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/JasperInitializer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TldSkipPatterns.java
 * /spring-boot-1-5-12-release-sources-
 jar/org/springframework/boot/context/embedded/InitParameterConfiguringServletContextInitializer.java
 * /spring-boot-1-5-12-release-sources-
 jar/org/springframework/boot/admin/SpringApplicationAdminMXBeanRegistrar.java
 *
 /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/info/InfoProperties.java
 * /spring-boot-1-5-12-release-sources-
 jar/org/springframework/boot/context/embedded/tomcat/ConnectorStartFailedException.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/package-info.java
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/package-info.java
 * /spring-boot-1-5-12-release-sources-
 jar/org/springframework/boot/type/classreading/ConcurrentReferenceCachingMetadataReaderFactory.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ImageBanner.java
 * /spring-boot-1-5-12-release-sources-
 jar/org/springframework/boot/context/embedded/ConfigurableEmbeddedServletContainer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/JspServlet.java
 *
 /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/package-info.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonObjectSerializer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiColors.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/WebListenerHandler.java

* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringApplicationRunListeners.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/EmbeddedServletContainerFactory.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/SpringPropertyAction.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/YamlPropertySourceLoader.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/ResourceNotFoundException.java
 *
 /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/LocalServerPort.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/YamlJavaBeanPropertyConstructor.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/Ssl.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletComponentHandler.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootConfiguration.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/DelegatingFilterProxyRegistrationBean.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletContextInitializer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/FileEncodingApplicationListener.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/ClasspathLoggingApplicationListener.java
 *
 /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/ServletContextInitializerConfiguration.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletListenerRegistrationBean.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/hibernate/SpringImplicitNamingStrategy.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/OrderedCharacterEncodingFilter.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/OrderedHiddenHttpMethodFilter.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationStartingEvent.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/LazySessionIdGenerator.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertySourcesBinder.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/AbstractFailureAnalyzer.java
 *
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 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/bitronix/PoolingConnectionFactoryBean.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/bitronix/PoolingDataSourceBean.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LogFile.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/system/SystemProperties.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/GsonJsonParser.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/analyzer/NoUniqueBeanDefinitionFailureAnalyzer.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/Slf4JLoggingSystem.java
 * /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/FailureAnalysis.java
 * /spring-boot-1-5-12-release-sources-

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jar/org/springframework/boot/logging/logback/LevelRemappingAppender.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/WebFilterHandler.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/FilterRegistrationBean.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/orm/jpa/hibernate/SpringPhysicalNamingStrategy.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiElement.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/PortInUseException.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/EntityManagerFactoryBuilder.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/DefaultLogbackConfiguration.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/config/RandomValuePropertySource.java
*
/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/narayana/NarayanaBeanFactoryPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingSystem.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ExitCodeGenerators.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/ServerPortInfoApplicationContextInitializer.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ErrorMessageRegistry.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/WebServletHandler.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ClearCachesApplicationListener.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/filter/OrderedHttpPutFormContentFilter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingSystemProperties.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/RegistrationBean.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ErrorMessageRegistrar.java

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1.306 hibernate-validator 5.1.2.Final

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1.308 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):

* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpConfiguration.java

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```

Found in path(s):

```
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/package-info.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ClassLoaderDump.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/PushBuilderImpl.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/QuietServletException.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/AsyncDelayHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AbstractConnectionFactory.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/package-info.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/CookieCutter.java
* /jetty-server-9-3-27-v20190418-sources-2-
jar/org/eclipse/jetty/server/nio/NetworkTrafficSelectChannelConnector.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Utf8HttpWriter.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HomeBaseWarning.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/HotSwapHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ServerConnectionStatistics.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpChannel.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HostHeaderCustomizer.java
*
```

```

/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/AbstractSession.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/jmx/package-info.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/jmx/ServerMBean.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ErrorHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/InclusiveByteRange.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/package-info.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ShutdownMonitor.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/HashSessionIdManager.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ScopedHandler.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ServerConnector.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpInput.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/AbstractSessionIdManager.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SessionManager.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpChannelOverHttp.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Dispatcher.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipRequestCustomizer.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AbstractNetworkConnector.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpInputOverHTTP.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/EncodingHttpWriter.java
* /jetty-server-9-3-27-v20190418-sources-2-
jar/org/eclipse/jetty/server/session/jmx/AbstractSessionManagerMBean.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/JDBCSessionIdManager.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AsyncNCSARequestLog.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/IPAccessHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SessionIdManager.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ThreadLimitHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SocketCustomizationListener.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/MultiPartCleanerListener.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Iso88591HttpWriter.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NegotiatingServerConnectionFactory.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/StatisticsHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/MemSession.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/SecuredRedirectHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/HashedSession.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/DebugHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ManagedAttributeListener.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/InetAccessHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/AllowSymLinkAliasChecker.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/nio/package-info.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Response.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/BufferedResponseHandler.java

```

- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/jmx/package-info.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/SessionHandler.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AbstractConnector.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SecureRequestCustomizer.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ContextHandlerCollection.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/HashSessionManager.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Connector.java
- *
- /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ConnectionFactory.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/UserIdentity.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Server.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/DebugListener.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ShutdownHandler.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/AbstractHandler.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NCSARequestLog.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpConnection.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ResourceHandler.java
- *
- /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ProxyConnectionFactory.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/jmx/ContextHandlerMBean.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ConnectorStatistics.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ResourceCache.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/HandlerWrapper.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NetworkTrafficServerConnector.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ForwardedRequestCustomizer.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ResponseWriter.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/LowResourceMonitor.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Request.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NegotiatingServerConnection.java
- *
- /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HandlerContainer.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpTransport.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/RequestLogCollection.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpConnectionFactory.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/HandlerList.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AsyncContextEvent.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Authentication.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/AbstractHandlerContainer.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpOutput.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/package-info.java
- *
- /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/LocalConnector.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AbstractNCSARequestLog.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ResourceContentFactory.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ServletRequestHttpWrapper.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpChannelState.java
- * /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/HandlerCollection.java

```

* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/IdleTimeoutHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/PushBuilder.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpWriter.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AsyncContextState.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/RequestLog.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipHttpOutputInterceptor.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/DefaultHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipFactory.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ContextHandler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ServletResponseHttpWrapper.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SslConnectionFactory.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NetworkConnector.java
*
/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Handler.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/jmx/package-info.java
* /jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Slf4jRequestLog.java
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```

* /jetty-server-9-3-27-v20190418-sources-2-jar/about.html

```

1.309 xmlsec 1.5.7

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1.310 spring-security-cas 3.2.4.RELEASE

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 */
```

Found in path(s):

```
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/EhCacheBasedTicketCache.java
* /spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/web/CasAuthenticationFilter.java
* /spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/SamlServiceProperties.java
*
/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/ServiceProperties.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/NullStatelessTicketCache.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/userdetails/GrantedAuthorityFromAssertionAttributesUserDetailsService.java
* /spring-security-cas-3-2-4-release-sources-
```

jar/org/springframework/security/cas/authentication/CasAuthenticationProvider.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/web/CasAuthenticationEntryPoint.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/userdetails/AbstractCasAssertionUserDetailsService.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/CasAuthenticationToken.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/CasAssertionAuthenticationToken.java
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Found in path(s):
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/StatelessTicketCache.java
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Found in path(s):

```
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/web/authentication/ServiceAuthenticationDetails.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/web/authentication/ServiceAuthenticationDetailsSource.java
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/web/authentication/DefaultServiceAuthenticationDetails.java
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Found in path(s):

```
* /spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/SpringCacheBasedTicketCache.java
```

1.311 xmltooling 1.4.4

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Schema for XML Signatures

<http://www.w3.org/2000/09/xmldsig#>

\$Revision: 1.2 \$ on \$Date: 2005/06/03 03:09:54 \$ by \$Author: cantor \$

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* /xmltooling-1-4-4-sources-2-jar/schema/xmlsig-core-schema.xsd

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Found in path(s):

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/NamespaceManager.java

*

/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509SKI.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509CredentialNameEvaluator.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedTypeImpl.java

* /xmltooling-1-4-4-sources-2-

jar/org/opensaml/xml/security/credential/criteria/EvaluableEntityIDCredentialCriteria.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/Resolver.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/OriginatorKeyInfo.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformMarshaller.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertyMarshaller.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/UnmarshallerFactory.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/LazyList.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509DigestCriteria.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractElementExtensibleXMLObjectMarshaller.java

*

/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Exponent.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/IndexingObjectStore.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/BaseXMLObjectMarshaller.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/KeyInfoReferenceSchemaValidator.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/UsageType.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509CertificateBuilder.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/StaticKeyInfoGenerator.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DigestMethodBuilder.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/XMLParserException.java

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKISexpBuilder.java


```

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedTypeMarshaller.java
*
/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509IssuerSerial.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SignatureTrustEngine.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLObjectBuilderFactory.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/InlineEncryptedKeyResolver.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/KANonce.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/NamedCurveImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformsUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/PgenCounter.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLObjectHelper.java
*
/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPKeyPacketImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/Pair.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionMethod.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/EntityIDCriteria.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SecurityHelper.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/PGPDataSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/CollectionCredentialResolver.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/DataReference.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeySizeBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/URIContentReference.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoMarshaller.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceListImpl.java
* /xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/credential/criteria/EvaluableKeyAlgorithmCredentialCriteria.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLObjectChildrenList.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPKeyPacketBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/DigestMethod.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoCriteria.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLConfigurator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/Version.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionProperties.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherReferenceMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/DatatypeHelper.java
*
/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoReferenceMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ExplicitKeySignatureTrustEngine.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/X509IssuerSerialSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSInteger.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PublicKeyImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/JImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/CryptoBinarySchemaValidator.java

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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DHKeyValueBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DigestMethodUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/ExplicitX509CertificateTrustEngine.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSStringBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X500DNHandler.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/StaticCredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/CriteriaSet.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLConstants.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509SubjectKeyIdentifierCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509CRLBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DigestMethodImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/AbstractSimpleSingletonFactory.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBooleanUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoCredentialResolver.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AbstractXMLEncryptionUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SecurityConfiguration.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoTypeImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyValueImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoHelper.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/AbstractXMLObjectMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/AgreementMethodSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoProvider.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBooleanBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionMethodImpl.java
- * /xmltooling-1-4-4-sources-2-
- jar/org/opensaml/xml/security/credential/criteria/EvaluableX509SubjectKeyIdentifierCredentialCriteria.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Modulus.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/XMLEncryptionBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/RetrievalMethodSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertiesBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformsImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/LazySet.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertyUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/Namespace.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ECPPointTypeImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformsMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SPKIData.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSURIImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/ExplicitX509CertificateTrustEvaluator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SignatureConstants.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/LocalKeyInfoCredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedKeyBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionMethodUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKIDataImpl.java

- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Transforms.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Signer.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/OriginatorKeyInfoMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ExponentBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXTrustEvaluator.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SeedImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPDataUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SerialNumberMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeyReferenceImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedDataImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SignatureException.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptedType.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/CredentialContextSet.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KANonceBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSURIUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/DEREncodedKeyValue.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SignableXMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/QBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractExtensibleXMLObjectUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SerialNumberImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/AbstractSingletonFactory.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/AbstractCredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSDateTime.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/validator/XSIntegerSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/LoggingErrorHandler.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509IssuerSerialCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/RecipientKeyInfo.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSDateTimeUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509IssuerSerialUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSQNameImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/XPathImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Signature.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/BasicX509CredentialNameEvaluator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceListMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/NamedCurveBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSIntegerMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DEREncodedKeyValueBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/EncryptedTypeSchemaValidator.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/UnmarshallingException.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SubjectNameImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RSAPublicKeyUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/CredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertiesMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/SimpleRetrievalMethodEncryptedKeyResolver.java

- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509KeyManagerX509CredentialAdapter.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/criteria/EvaluableX509DigestCredentialCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509IssuerSerialMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/tls/StrictHostnameVerifier.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/Criteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/TransformsMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/CertPathPKIXValidationOptions.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/ReferenceListSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/P.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractElementExtensibleXMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/CipherDataSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoTypeMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSAnyMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/AttributeMap.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/CipherValue.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SignatureUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/NamedCurveUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoGeneratorManager.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/OAEPparamsImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherReferenceImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CarriedKeyNameImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/IdBearing.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509CertificateImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/StaticBasicParserPool.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyNameBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPDataImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXValidationInformationResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/OriginatorKeyInfoBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Transforms.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/provider/KeyInfoReferenceProvider.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedKeyImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SubjectNameBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/validation/Validator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/SeedBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/PublicKey.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/TransformsSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionMethodMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509Certificate.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionProperty.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509CRLImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/FilesystemCredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeySizeImpl.java

- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AgreementMethodBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherReferenceUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/BasicSecurityConfiguration.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeyReferenceBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/KeyInfoTypeSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/SeedImpl.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPDataMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptedData.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Encrypter.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/IPAddressHelper.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBooleanImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractElementExtensibleXMLObjectUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DigestImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PgenCounterImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PublicBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/StaticKeyInfoCredentialResolver.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSStringMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/DecryptionException.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceTypeMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PgenCounterBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXValidationOptions.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/KeyLengthCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DSAKeyValueMarshaller.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/GeneratorBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PgenCounterBuilder.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/PGPData.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/XMLSignatureBuilder.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/KeyEncryptionParameters.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/ReferenceType.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/CredentialContext.java

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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SigningUtil.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DHKeyValueMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSStringUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionConstants.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/CriteriaFilteringIterable.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DSAKeyValueUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/MgmtData.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoCredentialContext.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedDataMarshaller.java
- * /xmltooling-1-4-4-sources-2-
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/KeyAlgorithmCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/KeyNameCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSURIBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractXMLObjectBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/QImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyValueMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/GeneratorImpl.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/KeyInfo.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSString.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RSAKeyValueMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyValueUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RSAKeyValueImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPKeyIDBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/XPathBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/CertPathPKIXTrustEvaluator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionException.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/PeerEntityIDCriteria.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSIntegerUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXValidationInformation.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/CipherReferenceSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/ECKeyValueSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SKIIImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/KeyInfoReference.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/DHKeyValue.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSAny.java
- * /xmltooling-1-4-4-sources-2-
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXX509CredentialTrustEngine.java
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* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/StaticPKIXValidationInformationResolver.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyValueBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/CipherReference.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/JBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/CryptoBinaryMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherDataMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/validation/ValidationException.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherValueBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKISexpImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ExponentImpl.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/MarshallingException.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RetrievalMethodImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLAttributeHelper.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/TransformsUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/ContentReference.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509Data.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedKeyMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/KeyInfoType.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/J.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/validation/AbstractValidatingXMLObject.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/PGPKeyID.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSURIMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RetrievalMethodMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PKIXSignatureTrustEngine.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/ValueTypeIndexedMap.java
* /xmltooling-1-4-4-sources-2-
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* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DSAKeyValueImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceTypeImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/criteria/EvaluableCredentialCriteria.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509IssuerNameImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeyReferenceMarshaller.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509IssuerSerialImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SPKISexp.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/X509DigestSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509IssuerSerialBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/ConfigurationException.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Transform.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DSAKeyValueBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformsBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSDateTimeMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/validation/ValidatorSuite.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherDataUnmarshaller.java

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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/BasicParserPool.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/P.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertiesUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoGenerator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/UsageCriteria.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SecurityTestHelper.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLHelper.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SignatureImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLObjectBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DEREncodedKeyValueImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/SchemaBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/Unmarshaller.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DataImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/ExplicitKeyTrustEvaluator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSAnyUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/OAEPparamsBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AgreementMethodImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DHKeyValueImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/KeyStoreCredentialResolver.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DHKeyValueUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/TransformSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/LangBearing.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSDateTimeImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractExtensibleXMLObjectMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/ApacheXMLSecurityConstants.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSIntegerBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/X509DataSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherDataBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/ECPointType.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyNameImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertyBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSQNameMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/TransformsBuilder.java
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* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/validator/XSStringSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionMethodBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Decrypter.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSURI.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoUnmarshaller.java
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ECKeyValueUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/KeySize.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AgreementMethodUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertiesImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/ChainingCredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/BasicPKIXValidationInformation.java
- * /xmltooling-1-4-4-sources-2-
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- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherDataImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/CryptoBinaryImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractXMLObject.java
- * /xmltooling-1-4-4-sources-2-
- jar/org/opensaml/xml/security/credential/criteria/EvaluableUsageCredentialCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/QBuilder.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DigestUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SecurityException.java
- * /xmltooling-1-4-4-sources-2-
- jar/org/opensaml/xml/security/credential/criteria/EvaluableX509IssuerSerialCredentialCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/G.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/validator/XSDateTimeSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/OriginatorKeyInfoImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/EvaluableCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBase64BinaryMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/MgmtDataImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ECKeyValueImpl.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509Digest.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/XPath.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SerialNumberBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/validator/XSBase64BinarySchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/ExplicitKeyTrustEngine.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DataMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/RetrievalMethod.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Q.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/MarshallerFactory.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/YImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceListUnmarshaller.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/OAEPparams.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedDataUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSAnyBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/ClassIndexedSet.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertyImpl.java

- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/validation/ValidatingXMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DigestBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/InternalX500DNHandler.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/AbstractEncryptedKeyResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PgenCounterImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AgreementMethodMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ECKKeyValueMarshaller.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AbstractXMLEncryptionMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DataUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ChainingSignatureTrustEngine.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Generator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RetrievalMethodBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/ReferenceTypeSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/ParserPool.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/BaseSignatureTrustEngine.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509SubjectNameCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedTypeUnmarshaller.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/provider/InlineX509DataProvider.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptedKey.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DataBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/CriteriaFilteringIterator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/KeyStoreX509CredentialAdapter.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPDataBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/ChainingEncryptedKeyResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/AbstractXMLSignatureUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/SingletonFactory.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DEREncodedKeyValueUnmarshaller.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/TrustEngine.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509IssuerNameBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509IssuerName.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PublicImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptedKeyResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/ECKKeyValue.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/Credential.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SignatureMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/SpaceBearing.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/IDIndex.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509SKIBuilder.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSAnyImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/provider/DSAKeyValueProvider.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSQNameUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/BaseXMLObjectUnmarshaller.java

- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/CryptoBinaryBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/KeyValueSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ECKeYValueBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509DigestMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/GBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509KeyInfoGeneratorFactory.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/AbstractCredential.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionParameters.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/NamedCurveSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/EncryptionMethodSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/OriginatorKeyInfoUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSIntegerImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DigestMethodMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/Marshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLRuntimeException.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PublicKeyBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/provider/DEREncodedKeyValueProvider.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/TransformsImpl.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractExtensibleXMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/DocumentInternalIDContentReference.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherValueImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/RSAPKeyValue.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/ClasspathResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherReferenceBuilder.java
- * /xmltooling-1-4-4-sources-2-
- jar/org/opensaml/xml/security/credential/criteria/EvaluableX509CertSelectorCredentialCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CarriedKeyNameBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KANonceImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/AbstractWrappedSingletonFactory.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/NamedCurve.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBase64BinaryUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedDataBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509CRL.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceListBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/ElementExtensibleXMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSBoolean.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/CarriedKeyName.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoResolutionContext.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/DSAPKeyValueSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RSAPKeyValueBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509SerialNumber.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SignatureBuilder.java
- *
- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/DSAPKeyValue.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AttributeExtensibleXMLObject.java

- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSDateTimeBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/DefaultSecurityConfigurationBootstrap.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/SPKIDataSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509Util.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Q.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/CollectionKeyInfoCredentialResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXTrustEngine.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeyReferenceUnmarshaller.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoReferenceImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBase64BinaryBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/PgenCounter.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/AbstractSignableXMLObject.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBooleanMarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/AbstractXMLObjectUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPKeyIDImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/AgreementMethod.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/MgmtDataBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509SubjectName.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/X509SerialNumberSchemaValidator.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509Credential.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Public.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/PublicKeyCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSQNameBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/SignatureSchemaValidator.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Seed.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RetrievalMethodUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/provider/RSAPublicKeyProvider.java
- * /xmltooling-1-4-4-sources-2-
- jar/org/opensaml/xml/encryption/SimpleKeyInfoReferenceEncryptedKeyResolver.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKIDataMarshaller.java
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- /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/GImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKIDataUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/QImpl.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceUnmarshaller.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PBuilder.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/CryptoBinary.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractValidatingSignableXMLObject.java
- * /xmltooling-1-4-4-sources-2-
- jar/org/opensaml/xml/security/credential/criteria/EvaluableX509SubjectNameCredentialCriteria.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/BaseBearing.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/ChainingTrustEngine.java
- * /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/BasicProviderKeyInfoCredentialResolver.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/Seed.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/validator/KeySizeSchemaValidator.java
* /xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/credential/criteria/EvaluableKeyNameCredentialCriteria.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/KeyName.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSQName.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/XMLSignatureCredentialContext.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DEREncodedKeyValueMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/AbstractXMLSignatureMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoReferenceUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/impl/XSBase64BinaryImpl.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/BasicX509Credential.java
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/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSBase64Binary.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/CipherData.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/PGPKeyPacket.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/BasicKeyInfoGeneratorFactory.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformUnmarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/KeyValue.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/IndexedXMLObjectChildrenList.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoReferenceBuilder.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/RSAPublicKeySchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/TransformSchemaValidator.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKIDataBuilder.java
*
/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/TrustedCredentialTrustEngine.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/NamedCurveMarshaller.java
* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSBooleanValue.java

```

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```

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Found in path(s):

```
* /xmltooling-1-4-4-sources-2-jar/schema/xenc11-schema.xsd
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/*
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 */
 /**
 * Encodes and decodes to and from Base64 notation.
 *
 * <p>
 * Change Log:
 *
 * </p>
 *
 * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
 for reading
 * and writing to and from files.
 * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
 * EBCDIC).
 * v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
 * 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).
 * 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).
 * 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.
 * v1.4 - Added helper methods to read/write files.
 * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
 * 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.
 * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
 * v1.3.3 - Fixed I/O streams which were totally messed up.
 *
 *

```

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* 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):

```

* /xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/Base64.java

```

1.312 yang-common 0.8.4-Beryllium-SR4

1.312.1 Available under license :

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1.313 mibble-commercial-mibs 2.9.3

1.313.1 Available under license :

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 dissasociates the interface identified with said entry from the mapping identified with said entry. It is an implementation-specific matter as to whether the agent removes an invalidated entry from the table. Accordingly,

management stations must be prepared to receive tabular information from agents that corresponds to entries not currently in use. Proper interpretation of such entries requires examination of the relevant atPhysAddress object."

```
::= { atEntry 2 }
```

atNetAddress OBJECT-TYPE

SYNTAX NetworkAddress

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The NetworkAddress (e.g., the IP address) corresponding to the media-dependent `physical' address."

```
::= { atEntry 3 }
```

-- the IP group

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

ipForwarding OBJECT-TYPE

SYNTAX INTEGER {

forwarding(1), -- acting as a gateway

not-forwarding(2) -- NOT acting as a gateway

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The indication of whether this entity is acting as an IP gateway in respect to the forwarding of datagrams received by, but not addressed to, this entity. IP gateways forward datagrams. IP hosts do not (except those source-routed via the host).

Note that for some managed nodes, this object may take on only a subset of the values possible.

Accordingly, it is appropriate for an agent to return a 'badValue' response if a management station attempts to change this object to an inappropriate value."

::= { ip 1 }

ipDefaultTTL OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The default value inserted into the Time-To-Live field of the IP header of datagrams originated at this entity, whenever a TTL value is not supplied by the transport layer protocol."

::= { ip 2 }

ipInReceives OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of input datagrams received from interfaces, including those received in error."

::= { ip 3 }

ipInHdrErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input datagrams discarded due to errors in their IP headers, including bad checksums, version number mismatch, other format errors, time-to-live exceeded, errors discovered in processing their IP options, etc."

::= { ip 4 }

ipInAddrErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input datagrams discarded because the IP address in their IP header's destination field was not a valid address to be received at this entity. This count includes invalid addresses (e.g., 0.0.0.0) and addresses of unsupported Classes (e.g.,

Class E). For entities

which are not IP Gateways and therefore do not forward datagrams, this counter includes datagrams discarded because the destination address was not a local address."

::= { ip 5 }

ipForwDatagrams OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input datagrams for which this entity was not their final IP destination, as a result of which an attempt was made to find a route to forward them to that final destination. In entities which do not act as IP Gateways, this counter will include only those packets which were Source-Routed via this entity, and the Source-Route option processing was successful."

::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of locally-addressed datagrams received successfully but discarded because of an unknown or unsupported protocol."

::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input IP datagrams for which no problems were encountered to prevent their continued processing, but which were discarded (e.g., for lack of buffer space). Note that this counter does not include any datagrams discarded while awaiting re-assembly."

::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of input datagrams successfully delivered to IP user-protocols (including ICMP)."

::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of IP datagrams which local IP user-protocols (including ICMP) supplied to IP in requests for transmission. Note that this counter does not include any datagrams counted in ipForwDatagrams."

::= { ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

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

::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams discarded because no route could be found to transmit them

to their

destination. Note that this counter includes any packets counted in ipForwDatagrams which meet this 'no-route' criterion. Note that this includes any 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 dissasociates the destination
    identified with said entry from the route
    identified with said entry. It is an
    implementation-specific matter as to whether the
    agent removes an invalidated entry from the table.
    Accordingly, management stations must be prepared
    to receive tabular information from agents that
    corresponds to entries not currently in use.
    Proper interpretation of such entries requires
    examination of the relevant ipRouteType object."
::= { ipRouteEntry 8 }

```

ipRouteProto OBJECT-TYPE

```

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

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

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

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

    -- the remaining values are
    -- all gateway routing
    -- protocols
    egp(5),
    ggp(6),
    hello(7),
    rip(8),
    is-is(9),

```



```

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

```

ipRouteAge OBJECT-TYPE

```

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

```

ipRouteMask OBJECT-TYPE

```

SYNTAX IpAddress
ACCESS read-write
STATUS mandatory
DESCRIPTION
    "Indicate the mask to be logical-ANDed with the
    destination address before being compared to the
    value in the ipRouteDest field. For those systems
    that do not support arbitrary subnet masks, an
    agent constructs the value of the ipRouteMask by
    determining whether the value of the correspondent
    ipRouteDest field belong to a class-A, B, or C
    network, and then using one of:

```

```

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

```

If the value of the ipRouteDest is 0.0.0.0 (a default route), then the mask value is also

0.0.0.0. It should be noted that all IP routing subsystems implicitly use this mechanism."
 ::= { ipRouteEntry 11 }

ipRouteMetric5 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 12 }

ipRouteInfo OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

DESCRIPTION

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

::= { ipRouteEntry 13 }

-- the IP Address Translation table

-- The IP address translation table contain the IpAddress to
-- `physical' address equivalences. Some interfaces do not
-- use translation tables for determining address
-- equivalences (e.g., DDN-X.25 has an algorithmic method);
-- if all interfaces are of this type, then the Address
-- Translation table is empty, i.e., has zero
entries.

ipNetToMediaTable OBJECT-TYPE

SYNTAX SEQUENCE OF IpNetToMediaEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"The IP Address Translation table used for mapping
from IP addresses to physical addresses."
::= { ip 22 }

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

IpNetToMediaEntry ::=

```
SEQUENCE {
    ipNetToMediaIfIndex
        INTEGER,
    ipNetToMediaPhysAddress
        PhysAddress,
    ipNetToMediaNetAddress
        IpAddress,
    ipNetToMediaType
        INTEGER
}
```

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

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

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The IPAddress corresponding to the media-dependent `physical' address."

::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

invalid(2), -- an invalidated mapping

dynamic(3),

static(4)

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The type of mapping.

Setting this object to the value invalid(2) has the effect of invalidating the corresponding entry in the ipNetToMediaTable. That is, it effectively 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 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 }

snmpInReadOnly OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number valid SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `readOnly'. It should be noted that it is a protocol error to generate an SNMP PDU which contains the value `readOnly' in the error-status field, as such this object is provided as a means of detecting

incorrect implementations of the SNMP."

::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `genErr'."

::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity

as the result of receiving valid SNMP Get-Request
and Get-Next PDUs."

::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of MIB objects which have been
altered successfully by the SNMP protocol entity
as the result

of receiving valid SNMP Set-Request
PDUs."

::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Request PDUs which
have been accepted and processed by the SNMP
protocol entity."

::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have
been accepted and processed by the SNMP protocol
entity."

::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Set-Request PDUs which
have been accepted and processed by the SNMP
protocol entity."

::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE

SYNTAX Counter

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

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

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

snmpOutNoSuchNames OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The total number of SNMP PDUs which were
 generated by the SNMP protocol entity and for
 which the value of the error-status is
 `noSuchName`."
::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The total number of SNMP PDUs which were
 generated by the SNMP protocol entity and for
 which the value of the error-status field is

```

        `badValue'."
 ::= { snmp 22 }

-- { snmp 23 } is not used

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

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

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

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

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

```

"The total number of SNMP Get-Response PDUs which
have been generated by the SNMP protocol entity."
::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Trap PDUs which have
been generated by the SNMP protocol entity."

::= { snmp 29 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Indicates whether the SNMP agent process is
permitted to generate authentication-failure
traps. The value of this object overrides any
configuration information; as such, it provides a
means whereby all authentication-failure traps may
be disabled.

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

::= { snmp 30 }

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-MIB

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

IANAifType-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2 FROM SNMPv2-SMI

TEXTUAL-CONVENTION FROM SNMPv2-TC;

ianaifType MODULE-IDENTITY

LAST-UPDATED "200709130000Z" -- September 13, 2007

ORGANIZATION "IANA"

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

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

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

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

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

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

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

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

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

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

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

REVISION "200603310000Z" -- March 31, 2006

DESCRIPTION "Registration of new IANA ifType 234."

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

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

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

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

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

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

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

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

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

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

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

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

REVISION "200308070000Z" -- Aug 7, 2003
DESCRIPTION "Registration of new IANAifTypes

222 and 223."

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

REVISION "200010170000Z" -- Oct 17, 2000
DESCRIPTION "Registration of new IANAifTypes
188 and 189."

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

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

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

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

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

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

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

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

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

::= { mib-2 30 }

IANAifType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used as the syntax of the ifType
object in the (updated) definition of MIB-II's
ifTable.

The definition of this textual convention with the
addition of newly assigned values is published
periodically by the IANA, in either the Assigned
Numbers RFC, or some derivative of it specific to
Internet

Network Management number assignments. (The
latest arrangements can be obtained by contacting the
IANA.)

Requests for new values should be made to IANA via

email (iana&iana.org).

The relationship between the assignment of ifType values and of OIDs to particular media-specific MIBs is solely the purview of IANA and is subject to change without notice. Quite often, a media-specific MIB's OID-subtree assignment within MIB-II's 'transmission' subtree will be the same as its ifType value. However, in some circumstances this will not be the case, and implementors must not pre-assume any specific relationship between ifType values and transmission subtree OIDs."

```
SYNTAX INTEGER {
    other(1),          -- none of the following
    regular1822(2),
    hdh1822(3),
    ddnX25(4),
    rfc877x25(5),
    ethernetCsmacd(6), -- for all ethernet-like interfaces,
                        -- regardless of speed, as per RFC3635
    iso88023Csmacd(7), -- Deprecated via RFC3635
                        -- ethernetCsmacd (6) should be used instead
    iso88024TokenBus(8),
    iso88025TokenRing(9),
    iso88026Man(10),
    starLan(11), -- Deprecated via RFC3635
                  -- ethernetCsmacd (6) should be used instead
    proteon10Mbit(12),
    proteon80Mbit(13),
    hyperchannel(14),
    fddi(15),
    lapb(16),
    sdlc(17),
    ds1(18),          -- DS1-MIB
    e1(19),           -- Obsolete see DS1-MIB
    basicISDN(20),
    -- no longer used
                        -- see also RFC2127
    primaryISDN(21),  -- no longer used
                        -- see also RFC2127
    propPointToPointSerial(22), -- proprietary serial
    ppp(23),
    softwareLoopback(24),
    eon(25),          -- CLNP over IP
    ethernet3Mbit(26),
    nsip(27),         -- XNS over IP
    slip(28),         -- generic SLIP
    ultra(29),        -- ULTRA technologies
```

```

ds3(30),      -- DS3-MIB
sip(31),      -- SMDS, coffee
frameRelay(32), -- DTE only.
rs232(33),
para(34),     -- parallel-port
arcnet(35),   -- arcnet
arcnetPlus(36), -- arcnet plus
atm(37),
-- ATM cells
miox25(38),
sonet(39),    -- SONET or SDH
x25ple(40),
iso88022llc(41),
localTalk(42),
smdsDxi(43),
frameRelayService(44), -- FRNETSERV-MIB
v35(45),
hssi(46),
hippi(47),
modem(48),    -- Generic modem
aal5(49),     -- AAL5 over ATM
sonetPath(50),
sonetVT(51),
smdsIcip(52), -- SMDS InterCarrier Interface
propVirtual(53), -- proprietary virtual/internal
propMultiplexor(54), -- proprietary multiplexing
ieee80212(55), -- 100BaseVG
fibreChannel(56), -- Fibre Channel
hippiInterface(57), -- HIPPI interfaces
frameRelayInterconnect(58), --
Obsolete use either
    -- frameRelay(32) or
    -- frameRelayService(44).
aflane8023(59), -- ATM Emulated LAN for 802.3
aflane8025(60), -- ATM Emulated LAN for 802.5
cctEmul(61),    -- ATM Emulated circuit
fastEther(62),  -- Obsoleted via RFC3635
    -- ethernetCsmacd (6) should be used instead
isdn(63),      -- ISDN and X.25
v11(64),       -- CCITT V.11/X.21
v36(65),       -- CCITT V.36
g703at64k(66), -- CCITT G703 at 64Kbps
g703at2mb(67), -- Obsolete see DS1-MIB
qllc(68),      -- SNA QLLC
fastEtherFX(69), -- Obsoleted via RFC3635

-- ethernetCsmacd (6) should be used instead
channel(70),    -- channel

```

```

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

async(84),        -- Asynchronous Protocol
cnr(85),          -- Combat Net Radio
iso88025Dtr(86),  -- ISO 802.5r DTR
eplrs(87),        -- Ext Pos Loc Report Sys
arap(88),         -- Appletalk Remote Access Protocol
propCnls(89),     -- Proprietary Connectionless Protocol
hostPad(90),      -- CCITT-ITU X.29 PAD Protocol
termPad(91),      -- CCITT-ITU X.3 PAD Facility
frameRelayMPI(92), -- Multiproto Interconnect over FR
x213(93),         -- CCITT-ITU X213
adsl(94),         -- Asymmetric Digital Subscriber Loop
radsl(95),        -- Rate-Adapt. Digital Subscriber Loop
sdsl(96),         -- Symmetric Digital Subscriber Loop
vdsl(97),         -- Very H-Speed Digital Subscrib. Loop
iso88025CRFPInt(98),

-- ISO 802.5 CRFP
myrinet(99),      -- Myricom Myrinet
voiceEM(100),     -- voice recEive and transMit
voiceFXO(101),    -- voice Foreign Exchange Office
voiceFXS(102),    -- voice Foreign Exchange Station
voiceEncap(103),  -- voice encapsulation
voiceOverIp(104), -- voice over IP encapsulation
atmDxi(105),      -- ATM DXI
atmFuni(106),     -- ATM FUNI
atmIma (107),     -- ATM IMA
pppMultilinkBundle(108), -- PPP Multilink Bundle
ipOverCdlc (109), -- IBM ipOverCdlc
ipOverClaw (110), -- IBM Common Link Access to Workstn
stackToStack (111), -- IBM stackToStack
virtualIpAddress (112), -- IBM VIPA
mpc (113),        -- IBM multi-protocol channel support

ipOverAtm (114),  -- IBM ipOverAtm
iso88025Fiber (115), -- ISO 802.5j Fiber Token Ring

```

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

* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANAIfType-MIB

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

APM-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,

NOTIFICATION-TYPE,

Counter32, Unsigned32 FROM SNMPv2-SMI

TEXTUAL-CONVENTION, RowStatus, TimeStamp,

TimeInterval, TruthValue, DateAndTime,

StorageType FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP,

NOTIFICATION-GROUP FROM SNMPv2-CONF

SnmpAdminString FROM SNMP-FRAMEWORK-MIB

rmon, OwnerString FROM RMON-MIB

protocolDirLocalIndex FROM RMON2-MIB;

-- Application Performance Measurement MIB

apm MODULE-IDENTITY

LAST-UPDATED "200402190000Z" -- February 19, 2004

ORGANIZATION "IETF RMON MIB Working Group"

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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 SnmAdminString,
 apmNameUserName SnmAdminString
}

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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/APM-MIB

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

DOCS-IF-MIB DEFINITIONS ::= BEGIN

```

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32,
    Integer32,
    Counter32,
    Counter64,
    TimeTicks,
    IpAddress,
    transmission
        FROM SNMPv2-SMI    -- [RFC2578]
    TEXTUAL-CONVENTION,
    MacAddress,
    RowStatus,
    TruthValue,
    TimeInterval,
    TimeStamp,
    StorageType
        FROM SNMPv2-TC    -- [RFC2579]
    OBJECT-GROUP,

```

MODULE-COMPLIANCE

FROM SNMPv2-CONF -- [RFC2580]
ifIndex, InterfaceIndexOrZero
FROM IF-MIB -- [RFC2863]
InetAddressType,
InetAddress
FROM INET-ADDRESS-MIB -- [RFC4001]
IANAifType
FROM IANAifType-MIB; -- [IANA]

docsIfMib MODULE-IDENTITY

LAST-UPDATED "200605240000Z" -- May 24, 2006
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Jean-Francois Mule, jf.mule@cablelabs.com"

DESCRIPTION

"This is the MIB Module for DOCSIS 2.0-compliant Radio

Frequency (RF) interfaces in Cable Modems and
Cable Modem Termination Systems.

Copyright (C) The Internet Society (2006). This
version of this MIB module is part of RFC 4546; see

the RFC itself for full legal notices."

REVISION "200605240000Z"

DESCRIPTION

"Revision of the IETF RF MIB module for DOCSIS 2.0.

This version published as RFC 4546.

This MIB module revision includes the following
among others:

Usage of ifType (205) for upstream logical channels.

Addition of downstream and upstream utilization
counters.

Additional statistics per upstream interface.

Upstream channel offline configuration mechanism.

Added MIB support for new DOCSIS 2.0 modulation
attributes.

Euro-DOCSIS downstream interleave values.

Adjustments to RFC 2670 definitions based on
the MIB review guidelines from the IETF

Operations and Management Area (OPS)."

REVISION "199908190000Z"

DESCRIPTION

"Initial version, published as RFC 2670.

Modified by Mike St. Johns to fix problems identified by
the first pass of the MIB doctor. Of special note,
docsIfRangingResp and docsIfCmtsInsertionInterval were
obsoleted and replaced by other objects with the same
functionality, but with more appropriate syntax."

::= { transmission 127 }

-- Textual Conventions

TenthdBmV ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally
expressed in dBmV. Units are in tenths of a dBmV;
for example, 5.1 dBmV will be represented as 51."

SYNTAX Integer32

TenthdB ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally

expressed in dB. Units are in tenths of a dB;
for example, 5.1 dB will be represented as 51."

SYNTAX Integer32

DocsisVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Radio Frequency specification being referenced.

'docsis10' indicates DOCSIS 1.0.

'docsis11' indicates DOCSIS 1.1.

'docsis20' indicates DOCSIS 2.0."

SYNTAX INTEGER {

docsis10 (1),

docsis11 (2),

docsis20 (3)

}

DocsisQosVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the referenced quality-of-service level.

'docsis10' refers to DOCSIS 1.0 Class of Service queuing services, and 'docsis11' refers to DOCSIS 1.1 Quality of Service."

SYNTAX INTEGER {

docsis10 (1),

docsis11 (2)

}

DocsisUpstreamType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Upstream Channel Type.

'unknown' means information not available.

'tdma' is related to TDMA, Time Division Multiple Access; 'atdma' is related to A-TDMA, Advanced Time Division Multiple Access,

'scdma' is related to S-CDMA, Synchronous Code Division Multiple Access.

'tdmaAndAtdma' is related to simultaneous support of

TDMA and A-TDMA modes."

```
SYNTAX      INTEGER {  
    unknown(0),  
    tdma(1),  
    atdma(2),  
    scdma(3),  
    tdmaAndAtdma(4)  
}
```

DocsEqualizerData ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type represents the equalizer data
as measured at the receiver interface.

The format of the equalizer follows the structure of the
Transmit Equalization Adjust RNG-RSP TLV of DOCSIS RFI
v2.0 :

1 byte Main tap location 1..(n + m)

1 byte Number of forward taps per symbol

1 byte Number of forward taps: n

1 byte Number of reverse taps: m

Following are the equalizer coefficients:

First, forward taps coefficients:

2 bytes F1 (real), 2 bytes F1 (imag)

...

2 bytes Fn (real), 2 bytes Fn (imag)

Then, reverse taps coefficients:

2 bytes D1 (real), 2 bytes D1 (imag)

...

2 bytes Dm (real), 2 bytes Dm (imag)

The equalizer coefficients are considered signed 16-bit
integers in the range from -32768 (0x8000) to 32767
(0x7FFF).

DOCSIS specifications require up to a maximum of
64 equalizer taps (n + m); therefore, this object size
can get up 260 bytes (4 + 4x64).

The minimum object size (other than zero) for a t-spaced
tap with a minimum of 8 symbols will be 36 (4 + 4x8)."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIV2.0-I10-051209,
Figure 8-23."
SYNTAX OCTET STRING(SIZE (0 | 36..260))

docsIfMibObjects OBJECT IDENTIFIER ::= { docsIfMib 1 }
docsIfBaseObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 1 }
docsIfCmObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 2 }
docsIfCmtsObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 3 }

--
-- BASE GROUP
--
--
-- The following table is implemented on both the Cable Modem
-- and the Cable Modem Termination System. This table is
-- read only for the CM.
--

docsIfDownstreamChannelTable OBJECT-TYPE
SYNTAX SEQUENCE OF DocsIfDownstreamChannelEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table describes the attributes of downstream
channels (frequency bands)."
REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface
Specification SP-RFIV2.0-I10-051209,
Tables 6-16, and 6-17."
::= { docsIfBaseObjects 1 }

docsIfDownstreamChannelEntry OBJECT-TYPE
SYNTAX DocsIfDownstreamChannelEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry provides a list of attributes for a single
downstream channel.
An entry in this table exists for each ifEntry with an
ifType of docsCableDownstream(128)."
INDEX { ifIndex }

::= { docsIfDownstreamChannelTable 1 }

DocsIfDownstreamChannelEntry ::= SEQUENCE {
 docsIfDownChannelId Integer32,
 docsIfDownChannelFrequency Integer32,
 docsIfDownChannelWidth Integer32,
 docsIfDownChannelModulation INTEGER,
 docsIfDownChannelInterleave INTEGER,
 docsIfDownChannelPower TenthdBmV,
 docsIfDownChannelAnnex INTEGER,
 docsIfDownChannelStorageType
StorageType
}

docsIfDownChannelId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Cable Modem Termination System identification of the downstream channel within this particular MAC interface. If the interface is down, the object returns the most current value. If the downstream channel ID is unknown, this object returns a value of 0."

::= { docsIfDownstreamChannelEntry 1 }

docsIfDownChannelFrequency OBJECT-TYPE

SYNTAX Integer32 (0..1000000000)

UNITS "hertz"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The center of the downstream frequency associated with this channel. This object will return the current tuner

frequency. If a CMTS provides IF output, this object will return 0, unless this CMTS is in control of the final downstream frequency. See

the associated

compliance object for a description of valid frequencies that may be written to this object."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RF1v2.0-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,
    docsIfSigQUnerrored      Counter32,
    docsIfSigQCorrected      Counter32,
    docsIfSigQUncorrectable  Counter32,
    docsIfSigQSignalNoise    TenthdB,
    docsIfSigQMicroreflections 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 }

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-RFv2.0-I10-051209, Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 8 }

docsIfSigQExtCorrected 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,
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 }

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,
docsIfCmtsCmStatusUnerrored Counter32,
docsIfCmtsCmStatusCorrected Counter32,
docsIfCmtsCmStatusUncorrectables Counter32,
docsIfCmtsCmStatusSignalNoise TenthdB,
docsIfCmtsCmStatusMicroreflections Integer32,
docsIfCmtsCmStatusExtUnerrored Counter64,
docsIfCmtsCmStatusExtCorrected 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.

registeredBPIInitializing(9)

Baseline Privacy (BPI) is enabled and the CMTS is in the process of completing BPI initialization. This state MAY last for a significant length of time if failures occur during the initialization process. After completion of BPI initialization, the CMTS will report registrationComplete(6).

The CMTS only needs to report states it is able to detect."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 11.2."

::= { docsIfCmtsCmStatusEntry 9 }

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 }

docsIfCmtsChannelUtilId 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..860000000)
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems. The values above are
appropriate for a cable plant using a Sub-Split channel
plan. If DOCSIS is extended to cover other types of
channel plans (and frequency allocations), this object
will be modified accordingly."

OBJECT docsIfDownChannelWidth
WRITE-SYNTAX Integer32 (6000000)
MIN-ACCESS read-only
DESCRIPTION
"It is important to implement this object as read-only.
In cable modems, this object is always
implemented as
read-only. The above value is appropriate for cable
plants running under NTSC (National Television
Standards Committee) standards. If DOCSIS is extended to
work with other standards (e.g., European standards), this
object will be modified accordingly."

OBJECT docsIfDownChannelModulation
WRITE-SYNTAX INTEGER {
 qam64 (3),
 qam256 (4)
}
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfDownChannelInterleave
WRITE-SYNTAX INTEGER {
 taps8Increment16(3),
 taps16Increment8(4),
 taps32Increment4(5),

 taps64Increment2(6),
 taps128Increment1(7)
}
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination

systems;
read-only in cable modems."

OBJECT docsIfDownChannelPower
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelFrequency
WRITE-SYNTAX Integer32 (5000000..42000000)
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems. The values above are
appropriate for a cable plant using a Sub-Split channel
plan. If DOCSIS is extended to cover other types of
channel plans (and frequency allocations), this object
will be modified accordingly."

OBJECT docsIfUpChannelWidth
WRITE-SYNTAX Integer32 (200000..3200000)
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems. The above value is appropriate
for cable plants running under NTSC (National Television
Standards Committee) standards. If DOCSIS is extended to
work with other standards (e.g., European standards), this
object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart
MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfQosProfPriority

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant
to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxTxBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfStatus

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant
to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

WRITE-SYNTAX BITS {
 createByManagement(0),
 updateByManagement(1)
}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

WRITE-SYNTAX INTEGER {
 qpsk (2),
 qam16 (3)
}

DESCRIPTION

"A management station MAY only set 16QAM or QPSK modulation,
but others might be possible, based on device
configuration."

OBJECT docsIfCmtsModPreambleLen

SYNTAX Integer32 (0..1024)

DESCRIPTION

"The range of the values for this MODULE-COMPLIANCE
is 0..1024."

OBJECT docsIfCmtsModFECErrorCorrection

SYNTAX Integer32 (0..10)

DESCRIPTION

"The range of the values for this MODULE-COMPLIANCE
is 0..10."

::= { docsIfCompliances 1 }

docsIfBasicComplianceV2 MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for devices that implement
DOCSIS 2.0 Radio Frequency Interfaces."

MODULE -- docsIfMib

```
-- unconditionally
mandatory groups
MANDATORY-GROUPS {
    docsIfBasicGroupV2
}
```

```
-- conditionally mandatory group
GROUP docsIfCmGroupV2
DESCRIPTION
    "This group is implemented only in cable modems, not in
    cable modem termination systems."
```

```
-- conditionally mandatory group
GROUP docsIfCmtsGroupV2
DESCRIPTION
    "This group is implemented only in cable modem termination
    systems, not in cable modems."
```

```
OBJECT docsIfDownChannelFrequency
WRITE-SYNTAX Integer32 (47000000..862000000)
MIN-ACCESS read-only
DESCRIPTION
    "Read-write in cable modem termination systems;
    read-only in cable modems.
    A range of 54MHz to 860MHz is appropriate for a cable
    plant using a North American Sub-Split channel plan.
    The spectrum range has been expanded to accommodate
    a lower edge of 47MHz and an upper edge of 862MHz
    for some European channel plans.
    If DOCSIS is extended to cover other
types of channel
    plans (and frequency allocations), this object will be
    modified accordingly."
```

```
OBJECT docsIfDownChannelWidth
WRITE-SYNTAX Integer32 (6000000 | 8000000)
MIN-ACCESS read-only
DESCRIPTION
    "It is important to implement this object as read-only.
    In cable modems, this object is always implemented as
    read-only. The value of 6 MHz is appropriate for cable
    plants running under NTSC (National Television
    Standards Committee) standards. The value of 8 MHz is
```

appropriate for cable plants running under ETSI standards. For other regional standards, this object will be modified accordingly."

OBJECT docsIfDownChannelModulation

```
WRITE-SYNTAX INTEGER {  
    qam64 (3),  
    qam256 (4)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfDownChannelInterleave

```
WRITE-SYNTAX INTEGER {  
    taps8Increment16(3),  
    taps16Increment8(4),  
    taps32Increment4(5),  
    taps64Increment2(6),  
    taps128Increment1(7),  
    taps12increment17(8)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelFrequency

WRITE-SYNTAX Integer32 (5000000..65000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems.

A range of 5MHz to 42MHz is appropriate for a cable plant using a North American Sub-Split channel plan.

The spectrum range has been expanded to accommodate an upper edge of 65MHz for some European channel plans.

If DOCSIS is extended to cover other types of channel plans (and frequency allocations), this object will be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..6400000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems, read-only in cable modems. The above value is appropriate for cable plants running under NTSC (National Television Standards Committee) standards. If DOCSIS is extended to work with other standards (e.g., European standards), this object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelSlotSize

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems. It is compliant to implement this object as read-only in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelScdmaActiveCodes

MIN-ACCESS

read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems.

The number of active codes when SCDMA is in use MUST range
from 64 to 128 and MUST be a non-Prime value.

Providing this range allows for the following features
and capabilities:

1) Power management in S-CDMA spreader-on frames
(with a 3 dB spread).

2) Avoidance of code 0.

3) Flexible mini-slot sizes with and without the use of
code 0."

OBJECT docsIfUpChannelScdmaCodesPerSlot

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelScdmaFrameSize

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelScdmaHoppingSeed

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelCloneFrom

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfUpChannelUpdate

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelStatus

MIN-ACCESS read-only

DESCRIPTION

"Read-create in Cable Modem Termination Systems;
read-only in Cable Modems.
Entries associated to physical interfaces only support
the read-only value 'active'."

OBJECT docsIfUpChannelPreEqEnable

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfQosProfPriority

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfStatus

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxTransmitBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfCmRangingTimeout

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmStatusModulationType

SYNTAX INTEGER {
 unknown(0),
 tdma(1),
 atdma(2),
 scdma(3)
}

DESCRIPTION

"CM does not use both modulation burst profiles of a
'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is
not supported."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

WRITE-SYNTAX BITS {
 createByManagement(0),
 updateByManagement(1)
}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

WRITE-SYNTAX INTEGER {
 qpsk(2),
 qam16(3),
 qam64(6)
}

DESCRIPTION

"A management station MAY only set 64QAM, 16QAM, or QPSK modulation for Time or Code division Multiple Access, but others might be possible based on device configuration."

OBJECT docsIfCmtsCmStatusModulationType

```
SYNTAX      INTEGER {  
    unknown(0),  
    tdma(1),  
    atdma(2),  
    scdma(3)  
}
```

DESCRIPTION

"CM does not use both modulation burst profiles of a
'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is
not supported."

::= { docsIfCompliances 2 }

docsIfBasicGroup OBJECT-GROUP

```
OBJECTS {  
    docsIfDownChannelId,  
    docsIfDownChannelFrequency,  
    docsIfDownChannelWidth,  
    docsIfDownChannelModulation,  
    docsIfDownChannelInterleave,  
    docsIfDownChannelPower,  
    docsIfUpChannelId,  
    docsIfUpChannelFrequency,  
    docsIfUpChannelWidth,  
    docsIfUpChannelModulationProfile,  
    docsIfUpChannelSlotSize,  
    docsIfUpChannelTxTimingOffset,  
    docsIfUpChannelRangingBackoffStart,  
    docsIfUpChannelRangingBackoffEnd,  
    docsIfUpChannelTxBackoffStart,  
    docsIfUpChannelTxBackoffEnd,  
    docsIfQosProfPriority,
```

```
    docsIfQosProfMaxUpBandwidth,  
    docsIfQosProfGuarUpBandwidth,  
    docsIfQosProfMaxDownBandwidth,  
    docsIfQosProfMaxTxBurst,  
    docsIfQosProfBaselinePrivacy,  
    docsIfQosProfStatus,  
    docsIfSigQIncludesContention,  
    docsIfSigQUnerroreds,  
    docsIfSigQCorrecteds,  
    docsIfSigQUncorrectables,  
    docsIfSigQSignalNoise,  
    docsIfSigQMicroreflections,
```

```

docsIfSigQEqualizationData
}
STATUS    deprecated
DESCRIPTION
    "Group of objects implemented in both cable modems and
    cable modem termination systems."
::= { docsIfGroups 1 }

```

docsIfCmGroup OBJECT-GROUP

```

OBJECTS {
    docsIfCmCmtsAddress,
    docsIfCmCapabilities,
    docsIfCmRangingTimeout,
    docsIfCmStatusValue,
    docsIfCmStatusCode,
    docsIfCmStatusTxPower,
    docsIfCmStatusResets,
    docsIfCmStatusLostSyncs,
    docsIfCmStatusInvalidMaps,
    docsIfCmStatusInvalidUcds,
    docsIfCmStatusInvalidRangingResponses,
    docsIfCmStatusInvalidRegistrationResponses,
    docsIfCmStatusT1Timeouts,
    docsIfCmStatusT2Timeouts,
    docsIfCmStatusT3Timeouts,
    docsIfCmStatusT4Timeouts,
    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,
docsIfCmtsCmStatusUncorrectable,
docsIfCmtsCmStatusSignalNoise,
docsIfCmtsCmStatusMicroreflections,
docsIfCmtsCmStatusExtUnerrored,

```

docsIfCmtsCmStatusExtCorrecteds,

docsIfCmtsCmStatusExtUncorrectables,
docsIfCmtsCmStatusDocsisRegMode,
docsIfCmtsCmStatusModulationType,
docsIfCmtsCmStatusInetAddressType,
docsIfCmtsCmStatusInetAddress,
docsIfCmtsCmStatusValueLastUpdate,
docsIfCmtsCmStatusHighResolutionTimingOffset,
docsIfCmtsServiceAdminStatus,
docsIfCmtsServiceQosProfile,
docsIfCmtsServiceCreateTime,
docsIfCmtsServiceInOctets,
docsIfCmtsServiceInPackets,
docsIfCmtsServiceNewCmStatusIndex,
docsIfCmtsModType,
docsIfCmtsModControl,
docsIfCmtsModPreambleLen,
docsIfCmtsModDifferentialEncoding,
docsIfCmtsModFECErrorCorrection,
docsIfCmtsModFECCodewordLength,
docsIfCmtsModScramblerSeed,
docsIfCmtsModMaxBurstSize,
docsIfCmtsModGuardTimeSize,
docsIfCmtsModLastCodewordShortened,
docsIfCmtsModScrambler,
docsIfCmtsModByteInterleaverDepth,
docsIfCmtsModByteInterleaverBlockSize,
docsIfCmtsModPreambleType,
docsIfCmtsModTcmErrorCorrectionOn,
docsIfCmtsModScdmaInterleaverStepSize,
docsIfCmtsModScdmaSpreaderEnable,
docsIfCmtsModScdmaSubframeCodes,
docsIfCmtsModChannelType,

docsIfCmtsModStorageType,
docsIfCmtsQosProfilePermissions,
docsIfCmtsCmPtr,
docsIfCmtsChannelUtilizationInterval,
docsIfCmtsChannelUtUtilization,
docsIfCmtsDownChnlCtrId,
docsIfCmtsDownChnlCtrTotalBytes,
docsIfCmtsDownChnlCtrUsedBytes,
docsIfCmtsDownChnlCtrExtTotalBytes,
docsIfCmtsDownChnlCtrExtUsedBytes,
docsIfCmtsUpChnlCtrId,

docsIfCmtsUpChnlCtrTotalMslots,
docsIfCmtsUpChnlCtrUcastGrantedMslots,
docsIfCmtsUpChnlCtrTotalCntnMslots,
docsIfCmtsUpChnlCtrUsedCntnMslots,
docsIfCmtsUpChnlCtrExtTotalMslots,

docsIfCmtsUpChnlCtrExtUcastGrantedMslots,
docsIfCmtsUpChnlCtrExtTotalCntnMslots,
docsIfCmtsUpChnlCtrExtUsedCntnMslots,
docsIfCmtsUpChnlCtrCollCntnMslots,
docsIfCmtsUpChnlCtrTotalCntnReqMslots,
docsIfCmtsUpChnlCtrUsedCntnReqMslots,
docsIfCmtsUpChnlCtrCollCntnReqMslots,
docsIfCmtsUpChnlCtrTotalCntnReqDataMslots,
docsIfCmtsUpChnlCtrUsedCntnReqDataMslots,
docsIfCmtsUpChnlCtrCollCntnReqDataMslots,
docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots,
docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots,
docsIfCmtsUpChnlCtrCollCntnInitMaintMslots,
docsIfCmtsUpChnlCtrExtCollCntnMslots,
docsIfCmtsUpChnlCtrExtTotalCntnReqMslots,
docsIfCmtsUpChnlCtrExtUsedCntnReqMslots,
docsIfCmtsUpChnlCtrExtCollCntnReqMslots,
docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots,
docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots,
docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots,
docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots,
docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots,
docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots,
docsIfDownChannelStorageType,
docsIfQosProfStorageType

}

STATUS current

DESCRIPTION

"Group of objects implemented in Cable Modem

Termination

Systems."

::= { docsIfGroups 7 }

END

Found in path(s):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-MIB

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

SNMP-FRAMEWORK-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,
OBJECT-IDENTITY,
snmpModules FROM SNMPv2-SMI
TEXTUAL-CONVENTION FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

snmpFrameworkMIB MODULE-IDENTITY

LAST-UPDATED "200210140000Z"
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"

DESCRIPTION "The SNMP Management Architecture MIB

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version of this MIB module is part of RFC 3411;
see the RFC itself for full legal notices.

"

REVISION "200210140000Z" -- 14 October 2002

DESCRIPTION "Changes in this revision:

- Updated various administrative information.
- Corrected some typos.
- Corrected typo in description of SnmpEngineID
that led to range overlap for 127.
- Changed '255a' to '255t' in definition of
SnmpAdminString to align with current SMI.
- Reworded 'reserved' for value zero in
DESCRIPTION of SnmpSecurityModel.
- The algorithm for allocating security models
should give

256 per enterprise block, rather
than 255.

- The example engine ID of 'abcd' is not
legal. Replaced with '800002b804616263'H based
on example enterprise 696, string 'abc'.
- Added clarification that engineID should
persist across re-initializations.

This revision published as RFC 3411.

"

REVISION "199901190000Z" -- 19 January 1999

DESCRIPTION "Updated editors' addresses, fixed typos.

Published as RFC 2571.

"

REVISION "199711200000Z" -- 20 November 1997

DESCRIPTION "The initial version, published in RFC 2271.

"

::= { snmpModules 10 }

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

SnmpEngineID ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "An SNMP engine's

administratively-unique identifier.

Objects of this type are for identification, not for addressing, even though it is possible that an address may have been used in the generation of a specific value.

The value for this object may not be all zeros or all 'ff'H or the empty (zero length) string.

The initial value for this object may be configured via an operator console entry or via an algorithmic function. In the latter case, the following example algorithm is recommended.

In cases where there are multiple engines on the same system, the use of this algorithm is NOT appropriate, as it would result in all of those engines ending up with the same ID value.

1) The very first bit is used to indicate how the

rest of the data is composed.

0 - as defined by enterprise using former methods that existed before SNMPv3. See item 2 below.

1 - as defined by this architecture, see item 3 below.

Note that this allows existing uses of the engineID (also known as AgentID [RFC1910]) to co-exist with any new uses.

2) The snmpEngineID has a length of 12 octets.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The remaining eight octets are determined via one or more enterprise-specific methods. Such

methods must be designed so as to maximize the possibility that the value of this object will be unique in the agent's administrative domain. For example, it may be the IP address of the SNMP entity, or the MAC address of one of the interfaces, with each address suitably padded with random octets. If multiple methods are defined, then it is recommended that the first octet indicate the method being used and the remaining octets be a function of the method.

3) The length of the octet string varies.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The very first bit is set to 1. For example, the above value for Acme Networks now changes to be '800002b8'H.

The fifth octet indicates how the rest (6th and following octets) are formatted. The values for the fifth octet are:

- 0 - reserved, unused.
- 1 - IPv4 address (4 octets)
lowest non-special IP address
- 2 - IPv6 address (16 octets)
lowest non-special IP address
- 3 - MAC address (6 octets)
lowest IEEE MAC address, canonical
order
- 4 - Text, administratively assigned
Maximum remaining length 27
- 5 - Octets, administratively assigned

Maximum remaining length 27

6-127 - reserved, unused

128-255 - as defined by the enterprise

Maximum remaining length 27

"

SYNTAX OCTET STRING (SIZE(5..32))

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)

SnmpMessageProcessingModel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "An identifier that uniquely identifies a Message Processing Model of the Message Processing Subsystem within this SNMP Management Architecture.

The values for messageProcessingModel are allocated as follows:

- Values between 0 and 255, inclusive, are reserved for standards-track Message Processing Models and are managed by the Internet Assigned Numbers Authority (IANA).
- Values greater than 255 are allocated to enterprise-specific Message Processing Models. An enterprise messageProcessingModel value is defined to be:

$\text{enterpriseID} * 256 +$
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):
* /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:

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 {

<code>spdEndGroupDirection</code>	<code>IfDirection</code> ,
<code>spdEndGroupInterface</code>	<code>InterfaceIndex</code> ,
<code>spdEndGroupName</code>	<code>SnmpAdminString</code> ,
<code>spdEndGroupLastChanged</code>	<code>TimeStamp</code> ,
<code>spdEndGroupStorageType</code>	<code>StorageType</code> ,
<code>spdEndGroupRowStatus</code>	<code>RowStatus</code>

}

`spdEndGroupDirection` OBJECT-TYPE

SYNTAX `IfDirection`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates which direction of packets crossing the interface are associated with which `spdEndGroupName` object. Ingress packets, or packets into the device match when this value is `inbound(1)`. Egress packets or packets out

of the device match when this value is `outbound(2)`."

::= { `spdEndpointToGroupEntry` 1 }

`spdEndGroupInterface` OBJECT-TYPE

SYNTAX `InterfaceIndex`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value matches the IF-MIB's ifTable's ifIndex column and indicates the interface associated with a given endpoint. This object can be used to uniquely identify an endpoint that a set of policy groups are applied to."

::= { spdEndpointToGroupEntry 2 }

spdEndGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The policy group name to apply at this endpoint. The value of the spdEndGroupName object is then used as an index into the spdGroupContentsTable to come up with a list of rules that MUST be applied at this endpoint."

::= { spdEndpointToGroupEntry 3 }

spdEndGroupLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdEndpointToGroupEntry 4 }

spdEndGroupStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdEndpointToGroupEntry 5 }

spdEndGroupRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object is considered 'notReady' and MUST NOT be set to active until one or more active rows exist within the spdGroupContentsTable for the group referenced by the spdEndGroupName object."

::= { spdEndpointToGroupEntry 6 }

--

-- policy group definition table

--

spdGroupContentsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of rules and/or subgroups contained within a given policy group. For a given value of spdGroupContName, the set of rows sharing that value forms a 'group'. The rows in a group MUST be processed according to the value of the spdGroupContPriority object in each row. The processing MUST be executed starting with the lowest value of spdGroupContPriority and in ascending order thereafter.

If an action is executed as the result of the processing of a row in a group, the processing of further rows in that group MUST stop. Iterating to the next policy group row by finding the next largest spdGroupContPriority object SHALL only be done if no actions were run while processing the current row for a given packet."

::= { spdConfigObjects 3 }

spdGroupContentsEntry OBJECT-TYPE

SYNTAX SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a given sub-component within a policy group. A sub-component is either a rule or another group as indicated by spdGroupContComponentType and referenced by spdGroupContComponentName."

INDEX { spdGroupContName,
spdGroupContPriority }
::= { spdGroupContentsTable 1 }

SpdGroupContentsEntry ::= SEQUENCE {

spdGroupContName	SnmpAdminString,
spdGroupContPriority	Integer32,
spdGroupContFilter	VariablePointer,
spdGroupContComponentType	INTEGER,
spdGroupContComponentName	SnmpAdminString,
spdGroupContLastChanged	TimeStamp,
spdGroupContStorageType	StorageType,
spdGroupContRowStatus	RowStatus

}

spdGroupContName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name of the group associated with this row. A 'group' is formed by all the rows in this table that have the same value of this object."

::= { spdGroupContentsEntry 1 }

spdGroupContPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority (sequence number) of the sub-component in a group that this row represents. This value indicates the order that each row of this table MUST be processed from low to high. For example, a row with a priority of 0 is processed before a row with a priority of 1, a 1 before

a 2, etc."
::= { spdGroupContentsEntry 2 }

spdGroupContFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdGroupContFilter points to a filter that is evaluated to determine whether the spdGroupContComponentName within this row is exercised. Managers can use this object to classify groups of rules, or subgroups, together in order to achieve a greater degree of control and optimization over the execution order of the items within the group. If the

filter evaluates to false, the rule or subgroup will be skipped and the next rule or subgroup will be evaluated instead. This value can be used to indicate a scalar or row in a table. When indicating a row in a table, this value MUST point to the first column instance in that row.

An example usage of this object would be to limit a group of rules to executing only when the IP packet being processed is designated to be processed by IKE. This effectively creates a group of IKE-specific rules.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable are defined in this MIB:

diffServMultiFieldClfrTable
spdIpOffsetFilterTable
spdTimeFilterTable
spdCompoundFilterTable
spdTrueFilter
spdIpsoHeaderFilterTable

Implementations MAY choose to provide support for other filter tables or scalars.

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is

not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, a row in this table is applied to a packet and the value of this column in that row references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

DEFVAL { spdTrueFilterInstance }

::= { spdGroupContentsEntry 3 }

spdGroupContComponentType OBJECT-TYPE

SYNTAX INTEGER { group(1), rule(2) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the spdGroupContComponentName object is the name of another group

defined within the

spdGroupContentsTable or is the name of a rule defined

within the spdRuleDefinitionTable."

DEFVAL { rule }

::= { spdGroupContentsEntry 4 }

spdGroupContComponentName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The name of the policy rule or subgroup contained within this row, as indicated by the spdGroupContComponentType object."

::= { spdGroupContentsEntry 5 }

spdGroupContLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem,

this object SHOULD have a zero value."
::= { spdGroupContentsEntry
6 }

spdGroupContStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdGroupContentsEntry 7 }

spdGroupContRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object MUST NOT be set to active until the row to which the spdGroupContComponentName points to exists and is active.

If active, this object MUST remain active unless one of the following two conditions are met:

- I. No active row in spdEndpointToGroupTable exists that references this row's group (i.e., indicate this row's spdGroupContName).
- II. Or at least one other active row in this table has a matching spdGroupContName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

```

::= { spdGroupContentsEntry 8 }

--
-- policy definition table
--

spdRuleDefinitionTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdRuleDefinitionEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table defines a rule by associating a filter
         or a set of filters to an action to be executed."
    ::= { spdConfigObjects 4 }

spdRuleDefinitionEntry OBJECT-TYPE
    SYNTAX      SpdRuleDefinitionEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row defining a particular rule definition.  A rule
         definition binds a filter pointer to an action pointer."
    INDEX { spdRuleDefName }
    ::= { spdRuleDefinitionTable 1 }

SpdRuleDefinitionEntry ::= SEQUENCE {
    spdRuleDefName          SnmpAdminString,

    spdRuleDefDescription   SnmpAdminString,
    spdRuleDefFilter        VariablePointer,
    spdRuleDefFilterNegated TruthValue,
    spdRuleDefAction        VariablePointer,
    spdRuleDefAdminStatus   SpdAdminStatus,
    spdRuleDefLastChanged   TimeStamp,
    spdRuleDefStorageType   StorageType,
    spdRuleDefRowStatus     RowStatus
}

spdRuleDefName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "spdRuleDefName is the administratively assigned name of

```

the rule referred to by the spdGroupContComponentName
object."

::= { spdRuleDefinitionEntry 1 }

spdRuleDefDescription OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A user defined string. This field MAY be used for
administrative tracking purposes."

DEFVAL { "" }

::= { spdRuleDefinitionEntry 2 }

spdRuleDefFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdRuleDefFilter points to a filter that is used to
evaluate whether the action associated with this row is
executed or not. The action will only execute if the
filter referenced by this object evaluates to TRUE after
first applying any negation required by the
spdRuleDefFilterNegated object.

The following tables and scalars can be pointed to by this
column. All but diffServMultiFieldClfrTable

are defined in

this MIB. Implementations MAY choose to provide support
for other filter tables or scalars as well:

diffServMultiFieldClfrTable

spdIpOffsetFilterTable

spdTimeFilterTable

spdCompoundFilterTable

spdTrueFilter

If this column is set to a VariablePointer value, which
references a non-existent row in an otherwise supported
table, the inconsistentName exception MUST be returned. If
the table or scalar pointed to by the VariablePointer is
not supported at all, then an inconsistentValue exception
MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

::= { spdRuleDefinitionEntry 3 }

spdRuleDefFilterNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS

read-create

STATUS current

DESCRIPTION

"spdRuleDefFilterNegated specifies whether or not the results of the filter referenced by the spdRuleDefFilter object is negated."

DEFVAL { false }

::= { spdRuleDefinitionEntry 4 }

spdRuleDefAction OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

spdCompoundActionTable
ipsaSaPreconfiguredActionTable
ipiaIkeActionTable
ipiaIpssecActionTable

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 spdSubFilter 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 spdCompFilterName.
- II. Or, at least one other active row in this table has a matching spdCompFilterName.

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 { 'fffffffffffffe'H }
::= { spdTimeFilterEntry 4 }

spdTimeFiltDayOfWeekMask OBJECT-TYPE

SYNTAX BITS { sunday(0), monday(1), tuesday(2),
wednesday(3), thursday(4), friday(5),
saturday(6) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A bit mask that defines which days of the week that the current time is valid for. This column evaluates to 'true' if the current day of the week's bit is set."

DEFVAL { { monday, tuesday, wednesday, thursday, friday,
saturday, sunday } }
::= { spdTimeFilterEntry 5 }

spdTimeFiltTimeOfDayMask OBJECT-TYPE

SYNTAX SpdTimePeriod

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates the start and end time of the day for which this filter evaluates to true. The date portions of the spdTimePeriod TC are ignored for purposes of evaluating this mask, and only the time-specific portions are used.

This column evaluates to 'true' if the current time of day is within the range of the start and end times of the day indicated by this object."

DEFVAL { "00000000T000000/00000000T240000" }
::= { spdTimeFilterEntry 6 }

spdTimeFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this

object SHOULD have a zero value."

::= { spdTimeFilterEntry 7 }

spdTimeFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdTimeFilterEntry 8 }

spdTimeFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set

it to anything other than active while it is

referenced by an active row in another table MUST result in

```

        an inconsistentValue error."
 ::= { spdTimeFilterEntry 9 }

--
-- IPSO protection authority filtering
--

spdIpsoHeaderFilterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdIpsoHeaderFilterEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "This table contains a list of IPSO header filter
        definitions to be used within the spdRuleDefinitionTable or
        the spdSubfiltersTable. IPSO headers and their values are
        described in RFC 1108."
    REFERENCE    "RFC 1108"
    ::= { spdConfigObjects 10 }

```

```

spdIpsoHeaderFilterEntry OBJECT-TYPE
    SYNTAX      SpdIpsoHeaderFilterEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "A definition of a particular filter."
    INDEX        { spdIpsoHeadFiltName }
    ::= { spdIpsoHeaderFilterTable 1 }

```

```

SpdIpsoHeaderFilterEntry ::= SEQUENCE
{
    spdIpsoHeadFiltName          SnmpAdminString,
    spdIpsoHeadFiltType          BITS,
    spdIpsoHeadFiltClassification INTEGER,
    spdIpsoHeadFiltProtectionAuth INTEGER,
    spdIpsoHeadFiltLastChanged   TimeStamp,
    spdIpsoHeadFiltStorageType   StorageType,
    spdIpsoHeadFiltRowStatus     RowStatus
}

```

```

spdIpsoHeadFiltName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "The administrative name for this filter."

```


::= { spdIpsoHeaderFilterEntry 1 }

spdIpsoHeadFiltType OBJECT-TYPE

SYNTAX BITS { classificationLevel(0),
protectionAuthority(1) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates which of the IPSO header field a packet is filtered on for this row. If this object is set to classification(0), the spdIpsoHeadFiltClassification

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

::= { spdIpsoHeaderFilterEntry 2 }

spdIpsoHeadFiltClassification OBJECT-TYPE

SYNTAX INTEGER { topSecret(61), secret(90),
confidential(150), unclassified(171) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO classification header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108."

REFERENCE "RFC 1108"

::= { spdIpsoHeaderFilterEntry 3 }

spdIpsoHeadFiltProtectionAuth OBJECT-TYPE

SYNTAX INTEGER { genser(0), siopesi(1), sci(2),
nsa(3), doe(4) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO protection authority header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108.

Hence the reason the SMIV2 convention of not using 0 in enumerated lists is violated here."

REFERENCE "RFC 1108"

::= { spdIpsoHeaderFilterEntry 4 }

spdIpsoHeadFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdIpsoHeaderFilterEntry 5 }

spdIpsoHeadFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdIpsoHeaderFilterEntry 6 }

spdIpsoHeadFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

However, this object MUST NOT be set to active if the requirements of the spdIpsoHeadFiltType object are not met. Specifically, if the spdIpsoHeadFiltType bit for classification(0) is set, the spdIpsoHeadFiltClassification

column MUST have a valid value for the row status to be set to active. If the spdIpsoHeadFiltType bit for protectionAuthority(1) is set, the spdIpsoHeadFiltProtectionAuth column MUST have a valid value for the row status to be set to active.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set it to anything other than active while it is referenced by an active row in another table MUST result in an inconsistentValue error."

::= { spdIpsoHeaderFilterEntry 7 }

--

-- compound actions table

--

spdCompoundActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Table used to allow multiple actions to be associated with a rule. It uses the spdSubactionsTable to do this.

The rows from spdSubactionsTable that are partially indexed by spdCompActName form the

set of compound actions to be

performed. The spdCompActExecutionStrategy column in this table indicates how those actions are processed."

::= { spdConfigObjects 11 }

spdCompoundActionEntry OBJECT-TYPE

SYNTAX SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the spdCompoundActionTable."

INDEX { spdCompActName }

::= { spdCompoundActionTable 1 }

SpdCompoundActionEntry ::= SEQUENCE {

spdCompActName SnmpAdminString,

spdCompActExecutionStrategy INTEGER,

spdCompActLastChanged TimeStamp,

```

spdCompActStorageType      StorageType,
spdCompActRowStatus        RowStatus
}

```

spdCompActName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is an administratively assigned name of this compound action."

```

::= { spdCompoundActionEntry
1 }

```

spdCompActExecutionStrategy OBJECT-TYPE

```

SYNTAX INTEGER { doAll(1),
                 doUntilSuccess(2),
                 doUntilFailure(3) }

```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates how the sub-actions are executed based on the success of the actions as they finish executing."

doAll - run each sub-action regardless of the exit status of the previous action. This parent action is always considered to have acted successfully.

doUntilSuccess - run each sub-action until one succeeds, at which point stop processing the sub-actions within this parent compound action. If one of the sub-actions did execute successfully, this parent action is also considered to have executed successfully.

doUntilFailure - run each sub-action until one fails, at which point stop processing the sub-actions within this compound action. If any sub-action fails, the result of this parent action is considered to have failed."

DEFVAL { doUntilSuccess }

::= { spdCompoundActionEntry 2 }

spdCompActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdCompoundActionEntry
3 }

spdCompActStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdCompoundActionEntry 4 }

spdCompActRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once a row in the spdCompoundActionTable has been made active, this object MUST NOT be set to destroy without first destroying all the contained rows listed in the spdSubactionsTable."

```

::= { spdCompoundActionEntry 5 }

--
-- actions contained within a compound action
--

spdSubactionsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdSubactionsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains a list of the sub-actions within a
        given compound action.  Compound actions executing these
        actions MUST execute them in series based on the
        spdSubActPriority value, with the lowest value executing
        first."
    ::= { spdConfigObjects 12 }

spdSubactionsEntry OBJECT-TYPE
    SYNTAX      SpdSubactionsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row containing a reference to a given compound-action
        sub-action."
    INDEX { spdCompActName, spdSubActPriority }
    ::= { spdSubactionsTable 1 }

SpdSubactionsEntry ::= SEQUENCE {
    spdSubActPriority          Integer32,
    spdSubActSubActionName
    VariablePointer,

    spdSubActLastChanged      TimeStamp,
    spdSubActStorageType      StorageType,
    spdSubActRowStatus        RowStatus
}

spdSubActPriority OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The priority of a given sub-action within a compound
        action.  The order in which sub-actions MUST be executed

```

are based on the value from this column, with the lowest numeric value executing first (i.e., priority 0 before priority 1, 1 before 2, etc.)."

::= { spdSubactionsEntry 1 }

spdSubActSubActionName OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

spdCompoundActionTable

- Allowing recursion

ipsaSaPreconfiguredActionTable

ipiaIkeActionTable

ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath spdStaticActions.

If this object is set to a pointer to a row in an unsupported (or unknown) table, an inconsistentValue error MUST be returned.

If this object is set to point to a non-existent row in an otherwise supported table, an inconsistentName error MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

::= { spdSubactionsEntry 2 }

spdSubActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external

means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdSubactionsEntry 3 }

spdSubActStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdSubactionsEntry 4 }

spdSubActRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active unless one of the following two conditions are met. An attempt to set it to anything other than active while the following conditions are not met MUST result in an inconsistentValue error. The two conditions are:

I. No active row in the spdCompoundActionTable exists which has a matching spdCompActName.

II. Or, at least one other active row in this table has a matching spdCompActName."

::= { spdSubactionsEntry 5 }


```

--
-- Static Actions
--

-- these are static actions that can be pointed to by the
-- spdRuleDefAction or the spdSubActSubActionName objects to
-- drop, accept, or reject packets.

spdStaticActions OBJECT IDENTIFIER ::= { spdConfigObjects 13 }

spdDropAction OBJECT-TYPE
    SYNTAX      Integer32 (1)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This scalar indicates that a packet MUST be dropped
        and SHOULD
        NOT have action/packet logging."
    ::= { spdStaticActions 1 }

spdDropActionLog OBJECT-TYPE
    SYNTAX      Integer32 (1)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This scalar indicates that a packet MUST be dropped
        and SHOULD have action/packet logging."
    ::= { spdStaticActions 2 }

spdAcceptAction OBJECT-TYPE
    SYNTAX      Integer32 (1)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This Scalar indicates that a packet MUST be accepted
        (pass-through) and SHOULD NOT have action/packet logging."
    ::= { spdStaticActions 3 }

spdAcceptActionLog OBJECT-TYPE
    SYNTAX      Integer32 (1)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This scalar indicates that a packet MUST be accepted
        (pass-through) and SHOULD have action/packet logging."
    ::= { spdStaticActions 4 }

```

```

--
--
-- Notification objects information
--
--

spdNotificationVariables OBJECT IDENTIFIER
::=
{ spdNotificationObjects 1 }

spdNotifications OBJECT IDENTIFIER ::=
{ spdNotificationObjects 0 }

spdActionExecuted OBJECT-TYPE
SYNTAX    VariablePointer
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "Points to the action instance that was executed that
    resulted in the notification being sent."
::= { spdNotificationVariables 1 }

spdIPEndpointAddType OBJECT-TYPE
SYNTAX    InetAddressType
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "Contains the address type for the interface that the
    notification triggering packet is passing through."
::= { spdNotificationVariables 2 }

spdIPEndpointAddress OBJECT-TYPE
SYNTAX    InetAddress
MAX-ACCESS accessible-for-notify
STATUS    current
DESCRIPTION
    "Contains the interface address for the interface that the
    notification triggering packet is passing through.

    The format of
    this object is specified by the
    spdIPEndpointAddType object."
::= { spdNotificationVariables 3 }

spdIPSourceType OBJECT-TYPE
SYNTAX    InetAddressType

```

MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Contains the source address type of the packet that

triggered the notification."
::= { spdNotificationVariables 4 }

spdIPSourceAddress OBJECT-TYPE

SYNTAX InetAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Contains the source address of the packet that
triggered the notification.

The format of this object is specified by the
spdIPSourceType object."
::= { spdNotificationVariables 5 }

spdIPDestinationType OBJECT-TYPE

SYNTAX InetAddressType
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Contains the destination address type of the packet
that triggered the notification."
::= { spdNotificationVariables 6 }

spdIPDestinationAddress OBJECT-TYPE

SYNTAX InetAddress
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION
"Contains the destination address of the packet that
triggered the notification.

The format of this object is specified by the
spdIPDestinationType object."
::= { spdNotificationVariables 7 }

spdPacketDirection OBJECT-TYPE

SYNTAX IfDirection
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION

"Indicates if the packet that triggered the action in questions was ingress (inbound) or egress (outbound)."
::= { spdNotificationVariables 8 }

spdPacketPart OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..65535))

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"spdPacketPart is the front part of the full IP packet that triggered this notification. The initial size limit is

determined by the smaller of the size, indicated by:

- I. The value of the object with the TC syntax 'SpdIPPacketLogging' that indicated the packet SHOULD be logged and
- II. The size of the triggering packet.

The final limit is determined by the SNMP packet size when sending the notification. The maximum size that can be included will be the smaller of the initial size, given the above, and the length that will fit in a single SNMP notification packet after the rest of the notification's objects and any other necessary packet data (headers encoding, etc.) have been included in the packet."

::= { spdNotificationVariables 9 }

spdActionNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType, spdIPEndpointAddress, spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, spdIPDestinationAddress, spdPacketDirection }

STATUS current

DESCRIPTION

"Notification that an action was executed by a rule. Only actions with logging enabled will result in this notification getting sent. The object includes the spdActionExecuted object, which will indicate which action was executed within the scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects

are included to indicate the packet source and destination of the packet that triggered the action. Finally, the spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects indicate which interface the executed action was associated with, and if the packet was ingress or egress through the endpoint.

A spdActionNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate.

Note that compound actions with multiple executed sub-actions may result in multiple notifications being sent from a single rule execution."

::= { spdNotifications 1 }

spdPacketNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType, spdIPEndpointAddress, spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, spdIPDestinationAddress, spdPacketDirection, spdPacketPart }

STATUS current

DESCRIPTION

"Notification that a packet passed through a Security Association (SA). Only SAs created by actions with packet logging enabled will result in this notification getting sent. The objects sent MUST include the spdActionExecuted, which will indicate which action was executed

within the

scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects MUST be included to indicate the packet source and destination of the packet that triggered the action. The spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects are included to indicate which endpoint the packet was associated with. Finally, spdPacketPart is included to enable sending a variable sized part of the front of the packet with the size dependent on the value of the object of TC syntax 'SpdIPPacketLogging', which indicated that logging should be done.

A spdPacketNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate.

An action notification
SHOULD be limited to a maximum of
one notification sent per minute for any action
notifications that do not have any other configuration
controlling their send rate."
::= { spdNotifications 2 }

--
--

-- Conformance information

--
--

spdCompliances OBJECT IDENTIFIER

::= { spdConformanceObjects 1 }

spdGroups OBJECT IDENTIFIER

::= { spdConformanceObjects 2 }

--
--

-- Compliance statements

--
--

spdRuleFilterFullCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that include an IPsec MIB implementation with Endpoint, Rules, and filters support.

When this MIB is implemented with support for read-create, then such an implementation can claim full compliance. Such devices can then be both monitored and configured with this MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,

```
spdGroupContentsGroup,  
    spdRuleDefinitionGroup,  
    spdStaticFilterGroup,  
    spdStaticActionGroup ,  
    diffServMIBMultiFieldClfrGroup }
```

GROUP spdIpsecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec

Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP spdIpsoHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound actions."

OBJECT spdEndGroupLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdGroupContComponentType

SYNTAX INTEGER {

rule(2)

}

DESCRIPTION

"Support of the value group(1) is only required for implementations that support Policy Groups within Policy Groups."

OBJECT spdGroupContLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdRuleDefLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdCompFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdSubFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdIpOffFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdTimeFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdIpsoHeadFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdCompActLastChanged

MIN-ACCESS

not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdSubActLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT diffServMultiFieldClfrNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"This object is not required for compliance."

::= { spdCompliances 1 }

spdLoggingCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that support sending notifications when actions are invoked."

MODULE -- This Module

MANDATORY-GROUPS { spdActionLoggingObjectGroup,
spdActionNotificationGroup }

::= { spdCompliances 2 }

--

-- ReadOnly Compliances

--

spdRuleFilterReadOnlyCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that include an IPsec MIB implementation with Endpoint, Rules, and filters support.

If this MIB is implemented without support for read-create (i.e., in read-only), it is not in full compliance, but it can claim read-only compliance. Such a device can then be monitored, but cannot be configured with this MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,

spdGroupContentsGroup,
spdRuleDefinitionGroup,
spdStaticFilterGroup,
spdStaticActionGroup ,
diffServMIBMultiFieldClfrGroup }

GROUP spdIpsecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP spdIpsoHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy

implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound actions."

OBJECT spdCompActExecutionStrategy

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdCompActLastChanged
DESCRIPTION
 "This object is not required for compliance."

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

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

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

OBJECT spdCompFiltLastChanged
DESCRIPTION
 "This object is not required for compliance."

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

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

OBJECT spdCompFiltStorageType

MIN-ACCESS read-only
DESCRIPTION

 "Write access is not required."

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

OBJECT spdEndGroupLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdEndGroupName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContComponentName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContComponentType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContFilter

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdGroupContRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIngressPolicyGroupName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpOffFiltOffset

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltValue

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpsoHeadFiltClassification

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpsoHeadFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

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

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

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

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

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

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

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

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

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

OBJECT spdRuleDefLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdRuleDefRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdSubActRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActSubActionName

MIN-ACCESS read-only

DESCRIPTION

"Write access
is not required."

OBJECT spdSubFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdSubFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltSubfilter
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltSubfilterIsNegated
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltDayOfMonthMask
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltDayOfWeekMask
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT
spdTimeFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdTimeFiltMonthOfYearMask
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltPeriod
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltRowStatus
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltTimeOfDayMask
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."


```

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

::= { spdCompliances 3 }

--
--
-- Compliance Groups Definitions
--

--
-- Endpoint, Rule, Filter Compliance Groups
--

spdEndpointGroup OBJECT-GROUP
OBJECTS {
    spdEndGroupName,
    spdEndGroupLastChanged,
    spdEndGroupStorageType, spdEndGroupRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Endpoint Table."
::= { spdGroups 1 }

spdGroupContentsGroup OBJECT-GROUP
OBJECTS {
    spdGroupContComponentType, spdGroupContFilter,
    spdGroupContComponentName, spdGroupContLastChanged,
    spdGroupContStorageType, spdGroupContRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Group Contents Table."
::= { spdGroups 2 }

spdIpsecSystemPolicyNameGroup OBJECT-GROUP
OBJECTS {
    spdIngressPolicyGroupName,
    spdEgressPolicyGroupName
}

```

STATUS current

DESCRIPTION

"This group is made up of objects represent the System
Policy Group Names."

::= { spdGroups 3 }

spdRuleDefinitionGroup OBJECT-GROUP

OBJECTS {

spdRuleDefDescription, spdRuleDefFilter,
spdRuleDefFilterNegated, spdRuleDefAction,
spdRuleDefAdminStatus, spdRuleDefLastChanged,

spdRuleDefStorageType, spdRuleDefRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy Rule
Definition Table."

::= { spdGroups 4 }

spdCompoundFilterGroup OBJECT-GROUP

OBJECTS {

spdCompFiltDescription, spdCompFiltLogicType,
spdCompFiltLastChanged, spdCompFiltStorageType,
spdCompFiltRowStatus, spdSubFiltSubfilter,
spdSubFiltSubfilterIsNegated, spdSubFiltLastChanged,
spdSubFiltStorageType, spdSubFiltRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy
Compound Filter Table and Sub-Filter Table Group."

::= { spdGroups 5 }

spdStaticFilterGroup OBJECT-GROUP

OBJECTS { spdTrueFilter }

STATUS current

DESCRIPTION

"The static filter group. Currently this is just
a true
filter."

::= { spdGroups 6 }

spdIPOffsetFilterGroup OBJECT-GROUP

OBJECTS {

spdIpOffFiltOffset, spdIpOffFiltType,

```

    spdIpOffFiltValue, spdIpOffFiltLastChanged,
    spdIpOffFiltStorageType, spdIpOffFiltRowStatus
}

STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy IP
    Offset Filter Table."
::= { spdGroups 7 }

spdTimeFilterGroup OBJECT-GROUP
OBJECTS {
    spdTimeFiltPeriod,
    spdTimeFiltMonthOfYearMask, spdTimeFiltDayOfMonthMask,
    spdTimeFiltDayOfWeekMask, spdTimeFiltTimeOfDayMask,

    spdTimeFiltLastChanged,
    spdTimeFiltStorageType, spdTimeFiltRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy Time
    Filter Table."
::= { spdGroups 8 }

spdIpsoHeaderFilterGroup OBJECT-GROUP
OBJECTS {
    spdIpsoHeadFiltType, spdIpsoHeadFiltClassification,
    spdIpsoHeadFiltProtectionAuth,
    spdIpsoHeadFiltLastChanged,
    spdIpsoHeadFiltStorageType, spdIpsoHeadFiltRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy IPSO
    Header Filter Table."
::= { spdGroups 9 }

--
-- action compliance groups
--

spdStaticActionGroup OBJECT-GROUP
OBJECTS {
    spdDropAction, spdAcceptAction,
    spdDropActionLog, spdAcceptActionLog

```

```

}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Static Actions."
::= { spdGroups 10 }

spdCompoundActionGroup OBJECT-GROUP
OBJECTS {
    spdCompActExecutionStrategy, spdCompActLastChanged,
    spdCompActStorageType,

    spdCompActRowStatus, spdSubActSubActionName,
    spdSubActLastChanged, spdSubActStorageType,
    spdSubActRowStatus
}
STATUS current
DESCRIPTION
    "The IPsec Policy Compound Action Table and Actions In

    Compound Action Table
    Group."
::= { spdGroups 11 }

spdActionLoggingObjectGroup OBJECT-GROUP
OBJECTS {
    spdActionExecuted,
    spdIPEndpointAddType, spdIPEndpointAddress,
    spdIPSourceType,    spdIPSourceAddress,
    spdIPDestinationType, spdIPDestinationAddress,
    spdPacketDirection, spdPacketPart
}
STATUS current
DESCRIPTION
    "This group is made up of all the Notification objects for
    this MIB."
::= { spdGroups 12 }

spdActionNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    spdActionNotification,
    spdPacketNotification
}
STATUS current
DESCRIPTION
    "This group is made up of all the Notifications for this MIB."

```

```
::= { spdGroups 13 }
```

END

Found in path(s):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-MIB

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

DOCS-CABLE-DEVICE-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,

OBJECT-TYPE,

IpAddress,

Unsigned32,

Counter32,

Integer32,

zeroDotZero,

mib-2

FROM SNMPv2-SMI -- RFC 2578

RowStatus,

RowPointer,

DateAndTime,

TruthValue,

StorageType

FROM SNMPv2-TC -- RFC 2579

InetAddressType,

InetAddress

FROM INET-ADDRESS-MIB -- RFC 4001

OBJECT-GROUP,

MODULE-COMPLIANCE

FROM SNMPv2-CONF -- RFC 2580

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

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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 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 OSSv1.1 specification, when ifIndex '1' is included in the set, then this row applies to all CPE (customer-facing) interfaces.

The size of this object is the minimum required to represent all configured interfaces for this device."
::= { docsDevNmAccessEntry 6 }

docsDevNmAccessStatus

OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Controls and reflects the status of rows in this table. Rows in this table may be created by either the create-and-go or create-and-wait paradigm. There is no restriction on changing values in a row of this table while the row is active.

The following objects MUST have valid values before this object can be set to active: docsDevNmAccessIp, docsDevNmAccessStatus, docsDevNmAccessIpMask, docsDevNmAccessCommunity, docsDevNmAccessControl, and docsDevNmAccessInterfaces."

::= { docsDevNmAccessEntry 7 }

docsDevNmAccessTrapVersion OBJECT-TYPE

SYNTAX INTEGER {


```

        disableSNMPv2trap(1),
        enableSNMPv2trap(2)
    }
    MAX-ACCESS read-create
    STATUS deprecated
    DESCRIPTION
        "Specifies the TRAP version that is sent to this NMS.
        Setting this object to disableSNMPv2trap (1) causes the
        trap in SNMPv1 format to be sent to a particular NMS.
        Setting this object to enableSNMPv2trap (2) causes the
        trap in SNMPv2 format be sent to a particular NMS."
    DEFVAL { disableSNMPv2trap }
    ::= { docsDevNmAccessEntry 8 }

--
-- The following group describes control objects used for downloading
-- firmware to a cable device. Procedures for software download are
-- described in Section 3.2.1 of the RFC containing this MIB module.
--

docsDevSoftware OBJECT IDENTIFIER ::= { docsDevMIBObjects 3 }

docsDevSwServer OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-write
    STATUS deprecated
    DESCRIPTION
        "The address of the TFTP server used for software
        upgrades. If the TFTP server is unknown or is a
        non-IPv4 address, return
        0.0.0.0.

        This object is deprecated. See docsDevSwServerAddress
        for its replacement. This object will have its value
        modified, given a valid SET to docsDevSwServerAddress."
    ::= { docsDevSoftware 1 }

docsDevSwFilename OBJECT-TYPE
    SYNTAX SnmpAdminString (SIZE (0..64))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "The filename of the software image to be downloaded via
        TFTP, or the abs_path (as defined in RFC 2616) of the
        software image to be downloaded via HTTP.

        Unless set via SNMP, this is the filename or abs_path

```

specified by the provisioning server during the boot process that corresponds to the software version that

is desired for this device.

If unknown, the value of this object is the zero-length string."

::= { docsDevSoftware 2 }

docsDevSwAdminStatus OBJECT-TYPE

SYNTAX INTEGER {
 upgradeFromMgt(1),
 allowProvisioningUpgrade(2),
 ignoreProvisioningUpgrade(3)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"If set to upgradeFromMgt(1), the device will initiate a TFTP or HTTP software image download. After successfully receiving an image, the device will set its state to ignoreProvisioningUpgrade(3) and reboot. If the download process is interrupted (e.g., by a reset or power failure), the device will load the previous image and, after re-initialization, continue to attempt loading the image specified in docsDevSwFilename.

If set to allowProvisioningUpgrade(2), the device will use the software version information supplied by the provisioning server when next rebooting (this does not cause a reboot).

When set to ignoreProvisioningUpgrade(3), the device will disregard software image upgrade information from the provisioning server.

Note that reading this object can return upgradeFromMgt(1). This indicates that a software download is currently in progress, and that the device will reboot after successfully receiving an image."

DEFVAL { allowProvisioningUpgrade }

::= { docsDevSoftware 3 }

docsDevSwOperStatus OBJECT-TYPE

SYNTAX INTEGER {

```

inProgress(1),
completeFromProvisioning(2),
completeFromMgt(3),
failed(4),
other(5)
}

```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"InProgress(1) indicates that a TFTP or HTTP download is underway, either as a result of a version mismatch at provisioning or as a result of a upgradeFromMgt request.

No other docsDevSw* objects can be modified in this state.

CompleteFromProvisioning(2) indicates that the last software upgrade was a result of version mismatch at provisioning.

CompleteFromMgt(3) indicates that the last software upgrade was a result of setting docsDevSwAdminStatus to upgradeFromMgt.

Failed(4) indicates that the last attempted download failed, ordinarily due to TFTP or HTTP timeout."

REFERENCE

"DOCSIS RFI 1.0 Specification, Section 8.2., and
DOCSIS RFI 1.1 Specification, Section 10.1. and
DOCSIS RFI 2.0 Specification, Section 12.1."

::= { docsDevSoftware 4 }

docsDevSwCurrentVers OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The software version currently operating in this device.

This

string's syntax is that used by the

individual vendor to identify software versions.

For a CM, this string will describe the current software load. For a CMTS, this object SHOULD contain

a human-readable representation either of the vendor

specific designation of the software for the chassis,

or of the software for the control processor. If neither of these is applicable, the value MUST be a zero-length string."
::= { docsDevSoftware 5 }

docsDevSwServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of address of the TFTP or HTTP server used for

software upgrades.

If docsDevSwServerTransportProtocol is currently set to tftp(1), attempting to set this object to dns(16) MUST result in an error."

::=
{ docsDevSoftware 6 }

docsDevSwServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The address of the TFTP or HTTP server used for software upgrades.

If the TFTP/HTTP server is unknown, return the zero-length address string (see the TextualConvention).

If docsDevSwServer is also implemented in this agent, this object is tied to it. A set of this object to an IPv4 address will result in also setting the value of docsDevSwServer to that address. If this object is set to an IPv6 address, docsDevSwServer is set to 0.0.0.0. If docsDevSwServer is set, this object is also set to that value. Note that if both are set in the same action, the order of which one sets the other is undefined."

::= { docsDevSoftware 7 }

docsDevSwServerTransportProtocol

OBJECT-TYPE

SYNTAX INTEGER {

tftp(1),

```

    http(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "This object specifies the transport protocol (TFTP or
    HTTP) to be used for software upgrades.

    If the value of this object is tftp(1), then the cable
    device uses TFTP (RFC 1350) read request packets to
    download the docsDevSwFilename from the
    docsDevSwServerAddress in octet mode.

    If the value of this object is http(2), then the cable
    device uses HTTP 1.0 (RFC 1945) or HTTP 1.1 (RFC 2616)
    GET requests sent to host docsDevSwServerAddress to

    download the software image from path docsDevSwFilename.

    If docsDevSwServerAddressType is currently set to
    dns(16), attempting to set this object to tftp(1) MUST
    result in an error."
DEFVAL
{ tftp }
::= { docsDevSoftware 8 }

--
-- The following group describes server access and parameters used
-- for initial provisioning and bootstrapping.
--

docsDevServer OBJECT IDENTIFIER ::= { docsDevMIBObjects 4 }

docsDevServerBootState OBJECT-TYPE
    SYNTAX INTEGER {
        operational(1),
        disabled(2),
        waitingForDhcpOffer(3),
        waitingForDhcpResponse(4),
        waitingForTimeServer(5),
        waitingForTftp(6),
        refusedByCmts(7),
        forwardingDenied(8),
        other(9),
        unknown(10)
    }

```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If operational(1), the device has completed loading and processing of configuration parameters, and the CMTS has completed the Registration exchange.

If disabled(2), then the device was administratively disabled, possibly by being refused network access

in

the configuration file.

If waitingForDhcpOffer(3), then a Dynamic Host Configuration Protocol (DHCP) Discover has been transmitted, and no offer has yet been received.

If waitingForDhcpResponse(4), then a DHCP Request has been transmitted, and no response has yet been received.

If waitingForTimeServer(5), then a Time Request has been transmitted, and no response has yet been received.

If waitingForTftp(6), then a request to the TFTP parameter server has been made, and no response received.

If refusedByCmts(7), then the Registration Request/Response exchange with the CMTS failed.

If forwardingDenied(8), then the registration process was completed, but the network access option in the received configuration file prohibits forwarding.

If other(9), then the registration process reached a point that does not fall into one of the above categories.

If unknown(10), then the device has not yet begun the registration process or is in some other indeterminate state."

REFERENCE

"DOCSIS RFI 1.0 Specification, Figure 7-1, and DOCSIS RFI 1.1 Specification, Figure 9-1 and DOCSIS RFI 2.0 Specification, Figure 11-1."

::= { docsDevServer 1 }

docsDevServerDhcp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the DHCP server that assigned an IP address to this device. Returns 0.0.0.0 if DHCP is not used for IP address assignment, or if this agent is not assigned an IPv4 address.

This object is deprecated and is replaced by docsDevServerDhcpAddress."

::= { docsDevServer

2 }

docsDevServerTime OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the Time server (RFC 0868). Returns 0.0.0.0 if the time server IP address is unknown, or if the time server is not an IPv4 server.

This object is deprecated and is replaced by

docsDevServerTimeAddress."

::= { docsDevServer 3 }

docsDevServerTftp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the TFTP server responsible for downloading provisioning and configuration parameters to this device. Returns 0.0.0.0 if the TFTP server address is unknown or is not an IPv4 address.

This object is deprecated and is replaced by docsDevServerConfigTftpAddress."

::= { docsDevServer

4 }

docsDevServerConfigFile OBJECT-TYPE

SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The name of the device configuration file read from
the TFTP server. Returns a zero-length string if
the configuration file name is unknown."
::= { docsDevServer 5 }

docsDevServerDhcpAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of address of docsDevServerDhcpAddress. If
DHCP was not used, this value should return
unknown(0)."
::= { docsDevServer 6 }

docsDevServerDhcpAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The internet address of the DHCP server that assigned
an IP address to this device. Returns the zero length

octet string if DHCP was not used for IP address
assignment."
::= { docsDevServer 7 }

docsDevServerTimeAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of address of docsDevServerTimeAddress. If
no time server exists, this value should return
unknown(0)."
::= { docsDevServer 8 }

docsDevServerTimeAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"The Internet address of the RFC 868 Time server, as provided by DHCP option 4.

Note that if multiple values are provided to the CM in DHCP option 4, the value of this MIB object MUST be the Time server address from which the Time of Day reference was acquired as based on the DOCSIS RFI specification.

During the period of time where the Time of Day have not been acquired, the Time server address reported by the CM may report the first address value in the DHCP option value or the last server address the CM attempted to get the Time of day value.

Returns the zero-length octet string if the time server IP address is not provisioned."

REFERENCE

"DOCSIS RFI 1.1 Specification, Section 9.2.7. and DOCSIS RFI 2.0 Specification, Section 11.2.7."

::= { docsDevServer 9 }

docsDevServerConfigTftpAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of address of docsDevServerConfigTftpAddress. If no TFTP server exists, this value should return unknown(0)."

::= { docsDevServer 10 }

docsDevServerConfigTftpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The internet address of the TFTP server responsible for downloading provisioning and configuration parameters to this device. Returns the zero-length octet string if the config server address is unknown. There are certain security risks that are involved with using TFTP."

REFERENCE

"RFC 3617, Section 5"

```

::= { docsDevServer 11 }

--
-- Event Reporting
--

docsDevEvent OBJECT IDENTIFIER ::= { docsDevMIBObjects 5 }

docsDevEvControl OBJECT-TYPE
    SYNTAX INTEGER {
        resetLog(1),
        useDefaultReporting(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to resetLog(1) empties the event
        log. All data is deleted. Setting it to
        useDefaultReporting(2) returns all event
        priorities to
        their factory-default reporting. Reading this object
        always returns useDefaultReporting(2)."
```

```

::= { docsDevEvent 1 }

docsDevEvSyslog OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-write
    STATUS deprecated
    DESCRIPTION
        "The IP address of the Syslog server. If 0.0.0.0, either
        syslog transmission is inhibited, or the Syslog server
        address is not an IPv4 address.

        This object is deprecated and is replaced by
        docsDevEvSyslogAddress."
```

```

::= { docsDevEvent 2 }

docsDevEvThrottleAdminStatus OBJECT-TYPE

    SYNTAX INTEGER {
        unconstrained(1),
        maintainBelowThreshold(2),
        stopAtThreshold(3),
        inhibited(4)
    }

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Controls the transmission of traps and syslog messages with respect to the trap pacing threshold.

unconstrained(1) causes traps and syslog messages to be transmitted without regard to the threshold settings.

maintainBelowThreshold(2) causes trap transmission and syslog messages to be suppressed if the number of traps would otherwise exceed the threshold.

stopAtThreshold(3) causes trap transmission to cease at the threshold and not to resume until directed to do so.

inhibited(4) causes all trap transmission and syslog messages to be suppressed.

A single event is always treated as a single event for threshold counting. That is, an event causing both a trap and a syslog message is still treated as a single event.

Writing to this object resets the thresholding state."

DEFVAL { unconstrained }

::= { docsDevEvent 3 }

docsDevEvThrottleInhibited OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"If true(1), trap and syslog transmission is currently inhibited due to thresholds and/or the current setting of docsDevEvThrottleAdminStatus. In addition, this is true(1) when transmission is inhibited because no syslog (docsDevEvSyslog) or trap (docsDevNmAccessEntry) destinations have been set.

This object is deprecated and is replaced by docsDevEvThrottleThresholdExceeded."

::= { docsDevEvent 4 }

docsDevEvThrottleThreshold OBJECT-TYPE

SYNTAX Unsigned32

UNITS "events"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Number of events per docsDevEvThrottleInterval permitted before throttling is to occur.

A single event, whether the notification could result in

messages transmitted using syslog, SNMP, or both protocols, and regardless of the number of destinations, (including zero) is always treated as a single event for threshold counting. For example, an event causing both a trap and a syslog message is still treated as a single event.

All system notifications that occur within the device should be taken into consideration when calculating and monitoring the threshold."

DEFVAL { 0 }

::= { docsDevEvent 5 }

docsDevEvThrottleInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The interval over which docsDevEvThrottleThreshold applies."

DEFVAL { 1 }

::= { docsDevEvent 6 }

--

-- The following table controls the reporting of the various classes
-- of events.

--

docsDevEvControlTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevEvControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table allows control of the reporting of event classes. For each event priority, a combination of

logging and reporting mechanisms may be chosen. The mapping of event types to priorities is vendor dependent. Vendors may also choose to allow the user to control that mapping through proprietary means. Table entries MUST persist across reboots for CMTS devices and MUST NOT persist across reboots for CM devices."

::= { docsDevEvent 7 }

docsDevEvControlEntry OBJECT-TYPE

SYNTAX DocsDevEvControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Allows configuration of the reporting mechanisms for a particular event priority."

INDEX { docsDevEvPriority }

::= { docsDevEvControlTable 1 }

DocsDevEvControlEntry ::= SEQUENCE {

docsDevEvPriority INTEGER,

docsDevEvReporting BITS

}

docsDevEvPriority OBJECT-TYPE

SYNTAX INTEGER {

emergency(1),

alert(2),

critical(3),

error(4),

warning(5),

notice(6),

information(7),

debug(8)

}

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority level that is controlled by this entry. These are ordered from most (emergency) to least (debug) critical. Each event with a CM or CMTS has a particular priority level associated with it (as defined by the vendor).

emergency(1) events indicate vendor-specific fatal hardware or software errors that prevent normal system operation.

alert(2) events indicate a serious failure that causes the reporting system to reboot but is not caused by hardware or software malfunctioning.

critical(3) events indicate a serious failure that requires attention and prevents the device from transmitting data but that could be recovered without rebooting the system.

error(4) and warning(5) events indicate that a failure occurred that could interrupt the normal data flow but that does not cause the device to re-register.

notice(6) and information(7) events indicate a milestone or checkpoint in normal operation that could be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific events.

During normal operation, no event more critical than notice(6) should be generated. Events between warning and emergency should be generated at appropriate levels of problems (e.g., emergency when the box is about to crash)."

```
::= { docsDevEvControlEntry 1 }
```

docsDevEvReporting OBJECT-TYPE

```
SYNTAX BITS {
    local(0),
    traps(1),
    syslog(2),
    -- The following are extensions to the original set of
    -- labels. The extensions start at an octet boundary.
    -- So for bits 3 - 7, one MUST set them to zero on send
    -- and one MUST ignore them on receipt.
    localVolatile(8),
    stdInterface(9)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the action to be taken on occurrence of this event class. Implementations may not necessarily support all options for all event classes but at minimum must allow traps and syslogging to be disabled.

If the local(0) bit is set, then log to the internal log and update non-volatile store, for backward compatibility with the original RFC 2669 definition.

If the traps(1) bit is set, then generate an SNMP trap; if the syslog(2) bit is set, then send a syslog message (assuming that the syslog address is set). If the localVolatile(8) bit is set, then log to the internal log without updating non-volatile store. If the stdInterface(9) bit is set, then the agent ignores all other bits except the local(0), syslog(2), and localVolatile(8) bits. Setting the stdInterface(9) bit indicates that RFC3413 and RFC3014 are being used to control event reporting mechanisms."

::= { docsDevEvControlEntry 2 }

docsDevEventTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevEventEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains a log of network and device events that may be of interest in fault isolation and troubleshooting.

If the local(0) bit is set in docsDevEvReporting, entries in this table MUST persist across reboots."

::= { docsDevEvent 8 }

docsDevEventEntry OBJECT-TYPE

SYNTAX DocsDevEventEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a network or device event that may be of interest in fault isolation and troubleshooting.

Multiple sequential identical events are represented by incrementing docsDevEvCounts and setting

docsDevEvLastTime to the current time rather than creating multiple rows.

Entries are created with the first occurrence of an event. docsDevEvControl can be used to clear the table. Individual events cannot be deleted."

```
INDEX { docsDevEvIndex }  
::= { docsDevEventTable 1 }
```

```
DocsDevEventEntry ::= SEQUENCE {  
    docsDevEvIndex      Integer32,  
    docsDevEvFirstTime  DateAndTime,  
  
    docsDevEvLastTime   DateAndTime,  
    docsDevEvCounts     Counter32,  
    docsDevEvLevel      INTEGER,  
    docsDevEvId         Unsigned32,  
    docsDevEvText       SnmpAdminString  
}
```

```
docsDevEvIndex OBJECT-TYPE  
    SYNTAX      Integer32 (1..2147483647)  
    MAX-ACCESS  not-accessible  
    STATUS      current  
    DESCRIPTION  
        "Provides relative ordering of the objects in the event  
        log. This object will always increase except when  
        (a) the log is reset via docsDevEvControl,  
        (b) the device reboots and does not implement  
        non-volatile storage for this log, or (c)  
        it reaches  
        the value 2^31. The next entry for all the above  
        cases is 1."  
    ::= { docsDevEventEntry 1 }
```

```
docsDevEvFirstTime OBJECT-TYPE  
    SYNTAX      DateAndTime  
    MAX-ACCESS  read-only  
    STATUS      current  
    DESCRIPTION  
        "The value of docsDevDateTime at the time this entry was  
        created."  
    ::= { docsDevEventEntry 2 }
```

```
docsDevEvLastTime OBJECT-TYPE
```


SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"When an entry reports only one event, this object will have the same value as the corresponding instance of docsDevEvFirstTime. When an entry reports multiple events, this object will record the value that docsDevDateTime had when the most recent event for this entry occurred."

::= { docsDevEventEntry 3 }

-- This object was renamed from docsDevEvCount to meet naming

--

requirements for Counter32

docsDevEvCounts OBJECT-TYPE

SYNTAX Counter32

UNITS "events"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of consecutive event instances reported by this entry. This starts at 1 with the creation of this row and increments by 1 for each subsequent duplicate event."

::= { docsDevEventEntry 4 }

docsDevEvLevel OBJECT-TYPE

SYNTAX INTEGER {

emergency(1),

alert(2),

critical(3),

error(4),

warning(5),

notice(6),

information(7),

debug(8)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The priority level of this event, as defined by the vendor. These are ordered from most serious (emergency) to least serious (debug).

emergency(1) events

indicate vendor-specific fatal

hardware or software errors that prevent normal system operation.

alert(2) events indicate a serious failure that causes the reporting system to reboot but that is not caused by hardware or software malfunctioning.

critical(3) events indicate a serious failure that requires attention and prevents the device from transmitting data but that could be recovered without rebooting the system.

error(4) and warning(5) events indicate that a failure occurred that could interrupt the normal data flow but that does not cause the device to re-register.

notice(6) and information(7) events indicate a milestone or checkpoint in normal operation that could be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific

events.

During normal operation, no event more critical than notice(6) should be generated. Events between warning and emergency should be generated at appropriate levels of problems (e.g., emergency when the box is about to crash)."

```
::= { docsDevEventEntry 5 }
```

--

-- It is strongly recommended that implementors follow the CableLabs

-- enumerations for docsDevEvId, per the DOCSIS OSSIV1.1 spec

-- and follow-on specifications.

--

docsDevEvId OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For this product, uniquely identifies the type of event that is reported by this entry."

REFERENCE

"DOCSIS OSSI 1.1 Specification, Appendix H and
DOCSIS OSSI 2.0 Specification, Annex D."

::= { docsDevEventEntry 6 }

docsDevEvText OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Provides a human-readable description of the event,
including all relevant context (interface numbers,
etc.)."

::= { docsDevEventEntry 7 }

docsDevEvSyslogAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of address of docsDevEvSyslogAddress. If
no syslog server exists, this value should return
unknown(0)."

DEFVAL { unknown }

::= { docsDevEvent 9 }

docsDevEvSyslogAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Internet address of the Syslog server, as provided
by DHCP option 7 or set via SNMP management. If the
address of the server is set to the zero-length
string, the 0.0.0.0

IPv4 address, or the 0: IPv6
address, Syslog transmission is inhibited.

Note that if multiple values are provided to the CM in
DHCP option 7, the value of this MIB object MUST be the
first Syslog server address received.

By default at agent boot, this object returns the zero
length string."

::= { docsDevEvent 10 }

docsDevEvThrottleThresholdExceeded OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If true(1), trap and syslog transmission is currently inhibited due to exceeding the trap/syslog event threshold in the current interval."

::= { docsDevEvent 11 }

--

-- Link Level Control Filtering

--

docsDevFilter OBJECT IDENTIFIER ::= { docsDevMIBObjects 6 }

docsDevFilterLLCUnmatchedAction OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2)

}

MAX-ACCESS

read-write

STATUS current

DESCRIPTION

"LLC (Link Level Control) filters can be defined on an inclusive or exclusive basis: CMs can be configured to forward only packets matching a set of layer three protocols, or to drop packets matching a set of layer three protocols. Typical use of these filters is to

filter out possibly harmful (given the context of a large metropolitan LAN) protocols.

If set to discard(1), any L2 packet that does not match at least one filter in the docsDevFilterLLCTable will be discarded. If set to accept(2), any L2 packet that does not match at least one filter in the docsDevFilterLLCTable will be accepted for further processing (e.g., bridging). In other words, if the packet does not match an entry in the table, it takes this action;

if it does match an entry in the table, it takes the opposite of this action."

DEFVAL { accept }
::= { docsDevFilter 1 }

docsDevFilterLLCTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterLLCEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"A list of filters to apply to (bridged) LLC traffic. The filters in this table are applied to incoming traffic on the appropriate interface(s) prior to any further processing (e.g., before the packet is handed off for level 3 processing, or for bridging). The specific action taken when no filter is matched is controlled by docsDevFilterLLCUnmatchedAction. Table entries MUST NOT persist across reboots for any device."

::= { docsDevFilter 2 }

docsDevFilterLLCEntry OBJECT-TYPE

SYNTAX DocsDevFilterLLCEntry
MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a single filter to apply to (bridged) LLC traffic received on a specified interface. "

INDEX { docsDevFilterLLCIndex }

::= { docsDevFilterLLCTable 1 }

DocsDevFilterLLCEntry ::= SEQUENCE {

docsDevFilterLLCIndex	Integer32,
docsDevFilterLLCStatus	RowStatus,
docsDevFilterLLCIfIndex	InterfaceIndexOrZero,
docsDevFilterLLCProtocolType	INTEGER,
docsDevFilterLLCProtocol	Integer32,
docsDevFilterLLCMatches	Counter32

}

docsDevFilterLLCIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"Index used for the identification of filters (note that LLC filter order is irrelevant)."

::= { docsDevFilterLLCEntry 1 }

docsDevFilterLLCStatus

OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Controls and reflects the status of rows in this table. There is no restriction on changing any of the associated columns for this row while this object is set to active.

Specifying only this object (with the appropriate index) on a CM is sufficient to create a filter row that matches all inbound packets on the ethernet interface and results in the packets being discarded. docsDevFilterLLCIfIndex (at least) must be specified on a CMTS to create a row."

::= { docsDevFilterLLCEntry 2 }

docsDevFilterLLCIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entry interface to which this filter applies. The value corresponds to ifIndex for either a CATV MAC or another network interface. If the value is zero, the filter applies to all interfaces. In Cable Modems, the default value is the customer side interface(s). In CMTSs, this object has to be specified to create a row in this table.

Note that according to the DOCSIS OSSIV1.1 specification, ifIndex '1' in the CM means that this row applies to all Cable Modem-to-CPE Interfaces (CMCI)."

REFERENCE

"DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."

::= { docsDevFilterLLCEntry 3 }

docsDevFilterLLCProtocolType OBJECT-TYPE

SYNTAX INTEGER {

ethertype(1),

```

        dsap(2)
    }
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "The format of the value in docsDevFilterLLCProtocol:
        either a two-byte Ethernet Ethertype, or a one-byte
        802.2 Service Access Point (SAP) value. ethertype(1)
        also applies to Standard Network Access Protocol
        (SNAP) encapsulated frames."
    DEFVAL { ethertype }
    ::= { docsDevFilterLLCEntry 4 }

```

docsDevFilterLLCProtocol OBJECT-TYPE

```

    SYNTAX Integer32 (0..65535)
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "The layer-three protocol for which this filter applies.
        The protocol value format depends on
        docsDevFilterLLCProtocolType. Note that for SNAP
        frames, ethertype filtering is performed rather than
        Destination Service Access Point (DSAP) =0xAA."
    DEFVAL { 0 }
    ::= { docsDevFilterLLCEntry 5 }

```

docsDevFilterLLCMatches OBJECT-TYPE

```

    SYNTAX Counter32
    UNITS "matches"
    MAX-ACCESS read-only
    STATUS current

```

DESCRIPTION

```

    "Counts the number of times this filter was matched."
    ::= { docsDevFilterLLCEntry 6 }

```

```

--
-- IPv4 Filtering
--

```

docsDevFilterIpDefault OBJECT-TYPE

```

    SYNTAX INTEGER {
        discard(1),
        accept(2)
    }
    MAX-ACCESS read-write

```

STATUS deprecated

DESCRIPTION

"The default behavior for (bridged) packets that do not match IP filters (or Internet filters, if implemented) is defined by docsDevFilterIpDefault.

If set to discard(1), all packets not matching an IP filter in docsDevFilterIpTable will be discarded. If set to accept(2), all packets not matching an IP filter or an Internet filter will be accepted for further processing (e.g., bridging)."

DEFVAL { accept }

::= { docsDevFilter 3 }

docsDevFilterIpTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterIpEntry

MAX-ACCESS

not-accessible

STATUS deprecated

DESCRIPTION

"An ordered list of filters or classifiers to apply to IP traffic. Filter application is ordered by the filter index, rather than by a best match algorithm (note that this implies that the filter table may have gaps in the index values). Packets that match no filters will have policy 0 in the docsDevFilterPolicyTable applied to them, if it exists. Otherwise, Packets that match no filters are discarded or forwarded according to the setting of docsDevFilterIpDefault.

Any IP packet can theoretically match multiple rows of this table. When considering a packet, the table is scanned in row index order (e.g., filter 10 is checked before filter 20). If the packet matches that filter (which means that it matches ALL criteria for that row),

actions appropriate to docsDevFilterIpControl and docsDevFilterPolicyId are taken. If the packet was discarded processing is complete. If docsDevFilterIpContinue is set to true, the filter comparison continues with the next row in the table, looking for additional matches.

If the packet matches no filter in the table, the packet is accepted or dropped for further processing according to the setting of docsDevFilterIpDefault.

If the packet is accepted, the actions specified by

policy group 0 (e.g., the rows in docsDevFilterPolicyTable that have a value of 0 for docsDevFilterPolicyId) are taken, if that policy

group exists.

Logically, this table is consulted twice during the processing of any IP packet: once upon its acceptance from the L2 entity, and once upon its transmission to

the L2 entity. In actuality, for cable modems, IP filtering is generally the only IP processing done for transit traffic. This means that inbound and outbound filtering can generally be done at the same time with one pass through the filter table.

The objects in this table are only accessible from cable devices that are not operating in DiffServ MIB mode (RFC 3289). See the conformance section for details.

Note that some devices are required by other specifications (e.g., the DOCSIS OSSIV1.1 specification) to support the legacy SNMPv1/v2c docsDevFilter mode for backward compatibility.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."

::= { docsDevFilter 4 }

docsDevFilterIpEntry

OBJECT-TYPE

SYNTAX DocsDevFilterIpEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Describes a filter to apply to IP traffic received on a specified interface. All identity objects in this table (e.g., source and destination address/mask, protocol, source/dest port, TOS/mask, interface and direction) must match their respective fields in the packet for any given filter to match.

To create an entry in this table, docsDevFilterIpIfIndex

must be specified."

INDEX { docsDevFilterIpIndex }

::= { docsDevFilterIpTable 1 }

DocsDevFilterIpEntry ::= SEQUENCE {

docsDevFilterIpIndex Integer32,
docsDevFilterIpStatus RowStatus,
docsDevFilterIpControl INTEGER,

docsDevFilterIpIfIndex InterfaceIndexOrZero,

docsDevFilterIpDirection INTEGER,
docsDevFilterIpBroadcast TruthValue,
docsDevFilterIpSaddr IpAddress,
docsDevFilterIpSmask IpAddress,
docsDevFilterIpDaddr IpAddress,
docsDevFilterIpDmask IpAddress,
docsDevFilterIpProtocol Integer32,
docsDevFilterIpSourcePortLow Integer32,
docsDevFilterIpSourcePortHigh Integer32,
docsDevFilterIpDestPortLow Integer32,
docsDevFilterIpDestPortHigh Integer32,
docsDevFilterIpMatches ZeroBasedCounter32,
docsDevFilterIpTos OCTET STRING,
docsDevFilterIpTosMask OCTET STRING,
docsDevFilterIpContinue TruthValue,
docsDevFilterIpPolicyId Integer32
}

docsDevFilterIpIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Index used to order the application of filters.

The filter with the lowest index is always applied
first."

::= { docsDevFilterIpEntry 1 }

docsDevFilterIpStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Controls and reflects the status of rows in this

table. Specifying only this object (with the appropriate index) on a CM is sufficient to create a filter row that matches all inbound packets on the ethernet interface and results in the packets being discarded. docsDevFilterIpIfIndex (at least) must be specified on a CMTS to create a row. Creation of the rows may be done via either create-and-wait or create-and-go, but the filter is not applied until this

object is set to (or changes to) active. There is no restriction in changing any object in a row while this object is set to active."

::= { docsDevFilterIpEntry 2 }

docsDevFilterIpControl OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2),

policy(3)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If set to discard(1), all packets matching this filter will be discarded, and scanning of the remainder of the filter list will be aborted. If set to accept(2), all packets matching this filter will be accepted for further processing (e.g., bridging). If docsDevFilterIpContinue is set to true, see if there are other matches; otherwise, done. If set to policy (3), execute the policy entries matched by docsDevFilterIpPolicyId in docsDevFilterPolicyTable.

If docsDevFilterIpContinue is set to true, continue scanning the table for other matches; otherwise, done."

DEFVAL { discard }

::= { docsDevFilterIpEntry 3 }

docsDevFilterIpIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entry interface to which this filter applies. The

value corresponds to ifIndex for either a CATV MAC or another interface. If the value is zero, the filter applies to all interfaces. Default value in CMs is the index of the customer-side (e.g., ethernet) interface(s). In CMTSes, this object MUST be specified to create a row in this table.

Note that according to the DOCSIS OSSIV1.1 specification, ifIndex '1' in the Cable Modem means that this row applies to all CMCI (customer-facing) interfaces."

REFERENCE

"DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."

::= { docsDevFilterIpEntry 4 }

docsDevFilterIpDirection OBJECT-TYPE

SYNTAX INTEGER {

inbound(1),
outbound(2),
both(3)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Determines whether the filter is applied to inbound(1) traffic, outbound(2) traffic, or traffic in both(3) directions."

DEFVAL { inbound }

::= { docsDevFilterIpEntry 5 }

docsDevFilterIpBroadcast OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If set to true(1), the filter only applies to multicast and broadcast traffic. If set to false(2), the filter applies to all traffic."

DEFVAL { false }

::= { docsDevFilterIpEntry 6 }

docsDevFilterIpSaddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The source IP address, or portion thereof, that is to be matched for this filter. The source address is first masked (ANDed) against docsDevFilterIpSmask before being compared to this value. A value of 0 for this object and 0 for the mask matches all IP addresses."

DEFVAL { '00000000'h }

::= { docsDevFilterIpEntry 7 }

docsDevFilterIpSmask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A bit mask that is to be applied to the source address prior to matching. This mask is not necessarily the same as a subnet mask, but 1s bits must be leftmost and contiguous."

DEFVAL

{ '00000000'h }

::= { docsDevFilterIpEntry 8 }

docsDevFilterIpDaddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The destination IP address, or portion thereof, that is to be matched for this filter. The destination address is first masked (ANDed) against docsDevFilterIpDmask before being compared to this value. A value of 00000000 for this object and 00000000 for the mask matches all IP addresses."

DEFVAL { '00000000'h }

::= { docsDevFilterIpEntry 9 }

docsDevFilterIpDmask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A bit mask that is to be applied to the destination address prior to matching. This mask is not necessarily

the same as a subnet mask, but 1s bits MUST be leftmost

and contiguous."

DEFVAL { '00000000'h }

::= { docsDevFilterIpEntry 10 }

docsDevFilterIpProtocol OBJECT-TYPE

SYNTAX Integer32 (0..256)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP protocol value that is to be matched. For example, icmp is 1, tcp is 6, and udp is 17. A value of 256 matches ANY protocol."

REFERENCE "www.iana.org/assignments/protocol-numbers"

DEFVAL { 256 }

::= { docsDevFilterIpEntry 11 }

docsDevFilterIpSourcePortLow OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive lower bound of the transport-layer source port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this

object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 0 }

::= { docsDevFilterIpEntry 12 }

docsDevFilterIpSourcePortHigh OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive upper bound of the transport-layer source port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 65535 }

::= { docsDevFilterIpEntry 13 }

docsDevFilterIpDestPortLow OBJECT-TYPE

SYNTAX Integer32 (0..65535)
 MAX-ACCESS read-create
 STATUS deprecated
 DESCRIPTION
 "This is the inclusive lower bound of the transport-layer destination port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this object is ignored during matching."
 REFERENCE "www.iana.org/assignments/port-numbers"
 DEFVAL { 0 }
 ::= { docsDevFilterIpEntry 14 }

docsDevFilterIpDestPortHigh OBJECT-TYPE

SYNTAX Integer32 (0..65535)
 MAX-ACCESS read-create
 STATUS deprecated
 DESCRIPTION
 "This is the inclusive upper bound of the transport-layer destination port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this object is ignored during matching."
 REFERENCE "www.iana.org/assignments/port-numbers"
 DEFVAL { 65535 }
 ::= { docsDevFilterIpEntry 15 }

docsDevFilterIpMatches OBJECT-TYPE

SYNTAX ZeroBasedCounter32
 UNITS "matches"
 MAX-ACCESS read-only

STATUS deprecated
 DESCRIPTION

"Counts the number of times this filter was matched. This object is initialized to 0 at boot, or at row creation, and is reset only upon reboot."
 ::= { docsDevFilterIpEntry 16 }

docsDevFilterIpTos OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))
 MAX-ACCESS read-create
 STATUS deprecated
 DESCRIPTION
 "This is the value to be matched to the packet's TOS (Type of Service) value (after the TOS value

is ANDed with docsDevFilterIpTosMask). A value for this object of 0 and a mask of 0 matches all TOS values."
DEFVAL { '00'h }
::= { docsDevFilterIpEntry 17 }

docsDevFilterIpTosMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"The mask to be applied to the packet's TOS value before matching."
DEFVAL { '00'h }
::= { docsDevFilterIpEntry 18 }

docsDevFilterIpContinue OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"If this value is set to true and docsDevFilterIpControl is anything but discard (1), continue scanning and applying policies. See Section 3.3.3 for more details."
DEFVAL { false }
::= { docsDevFilterIpEntry 19 }

docsDevFilterIpPolicyId OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"This object points to an entry in docsDevFilterPolicyTable. If docsDevFilterIpControl

is set to policy (3), execute all matching policies in docsDevFilterPolicyTable. If no matching policy exists, treat as if docsDevFilterIpControl were set to accept (1). If this object is set to the value of 0, there is no matching policy, and docsDevFilterPolicyTable MUST NOT be consulted."
DEFVAL { 0 }
::= { docsDevFilterIpEntry 20 }

--

-- Policy Mapping Table

--

docsDevFilterPolicyTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterPolicyEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A Table that maps between a policy group ID and a set of pointers to policies to be applied. All rows with the same docsDevFilterPolicyId are part of the same group of policy pointers and are applied in the order in this table. docsDevFilterPolicyTable exists to allow multiple policy actions (referenced by policy pointers) to be applied to any given classified packet. The policy actions are applied in index order. For example:

Index	ID	Type	Action
1	1	TOS	1
9	5	TOS	1
12	1	IPSEC	3

This says that a packet that matches a filter with policy id 1 first has TOS policy 1 applied (which might set the TOS bits to enable a higher priority) and next has the IPSEC policy 3 applied (which may result in the packets being dumped into a secure VPN to a remote encryptor).

Policy ID 0 is reserved for default actions and is applied only to packets that match no filters in docsDevFilterIpTable.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB

from RFC 3289."

::= { docsDevFilter 5 }

docsDevFilterPolicyEntry OBJECT-TYPE

SYNTAX DocsDevFilterPolicyEntry

MAX-ACCESS not-accessible

```

STATUS    deprecated
DESCRIPTION
    "An entry in the docsDevFilterPolicyTable. Entries are
    created by Network
Management. To create an entry,
    docsDevFilterPolicyId MUST be specified."
INDEX { docsDevFilterPolicyIndex }
::= { docsDevFilterPolicyTable 1 }

DocsDevFilterPolicyEntry ::= SEQUENCE {
    docsDevFilterPolicyIndex  Integer32,
    docsDevFilterPolicyId     Integer32,
--    docsDevFilterPolicyType  INTEGER,
--    docsDevFilterPolicyAction Integer32,
    docsDevFilterPolicyStatus RowStatus,
    docsDevFilterPolicyPtr    RowPointer
}

docsDevFilterPolicyIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION "Index value for the table."
    ::= { docsDevFilterPolicyEntry 1 }

docsDevFilterPolicyId OBJECT-TYPE
    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "Policy ID for this entry. If a policy ID can apply
to
        multiple rows of this table, all relevant policies are
        executed. Policy 0 (if populated) is applied to all
        packets that do not match any of the filters. N.B. If
        docsDevFilterIpPolicyId is set to 0, it DOES NOT match
        policy 0 of this table."
    ::= { docsDevFilterPolicyEntry 2 }

-- The following two objects were removed and never used; however,
-- to preserve OID numbering, they are simply commented out to
-- to ensure that they are not used again.
-- docsDevFilterPolicyType ::= { docsDevFilterPolicyEntry 3 }
-- docsDevFilterPolicyAction ::= { docsDevFilterPolicyEntry 4 }

```

```
docsDevFilterPolicyStatus OBJECT-TYPE
```

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION

"Object used to create an entry in this table. There is no restriction in changing any object in a row while this object is set to active.

The following object MUST have a valid value before this object can be set to active: docsDevFilterPolicyPtr."
::= { docsDevFilterPolicyEntry 5 }

docsDevFilterPolicyPtr OBJECT-TYPE

SYNTAX RowPointer
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION

"This object points to a row in an applicable filter policy table. Currently, the only standard policy table is docsDevFilterTosTable.

Per the textual convention, this object points to the first accessible object in the row; e.g., to point to a row in docsDevFilterTosTable with an index of 21, the value of this object would be the object identifier docsDevTosStatus.21.

Vendors are recommended to adhere to the same convention when adding vendor-specific policy table extensions.

If this pointer references an empty or non-existent

row, then no policy action is taken.

The default upon row creation is a null pointer that results in no policy action being taken."

DEFVAL { zeroDotZero }
::= { docsDevFilterPolicyEntry 6 }

--
-- TOS Policy action table
--

docsDevFilterTosTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterTosEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION

"Table used to describe Type of Service (TOS) bits

processing.

This table is an adjunct to the docsDevFilterIpTable and the docsDevFilterPolicy table. Entries in the latter table can point to specific rows in this (and other) tables and cause specific actions to be taken. This table permits the manipulation of the value of the Type of Service bits in the IP header of the matched packet as follows:

Set the tosBits
of the packet to
(tosBits & docsDevFilterTosAndMask) |
docsDevFilterTosOrMask

This construct allows you to do a clear and set of all the TOS bits in a flexible manner.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."

::= { docsDevFilter 6 }

docsDevFilterTosEntry OBJECT-TYPE

SYNTAX DocsDevFilterTosEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A TOS policy entry."

INDEX { docsDevFilterTosIndex }

::= { docsDevFilterTosTable 1 }

DocsDevFilterTosEntry ::= SEQUENCE {

docsDevFilterTosIndex Integer32,

docsDevFilterTosStatus RowStatus,

docsDevFilterTosAndMask OCTET STRING,

docsDevFilterTosOrMask OCTET STRING

}

docsDevFilterTosIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The unique index for this row. There are no ordering requirements for this table, and any valid index may be specified."

::= { docsDevFilterTosEntry 1 }

docsDevFilterTosStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The object used to create and delete entries in this table. A row created by specifying just this object results in a row that specifies no change to the TOS bits. A row may be created using either the create-and-go or create-and-wait paradigms. There is no restriction on the ability to change values in this row while the row is active."

::= { docsDevFilterTosEntry 2 }

docsDevFilterTosAndMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This value is bitwise ANDed with the matched packet's TOS bits."

DEFVAL { 'ff'h }

::= { docsDevFilterTosEntry 3 }

docsDevFilterTosOrMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This value is bitwise ORed with the result from the AND procedure (tosBits & docsDevFilterTosAndMask). The result then replaces the packet's TOS bits."

DEFVAL { '00'h }

::= { docsDevFilterTosEntry 4 }

--

-- CPE IP Management and anti-spoofing group. Only implemented on

-- Cable Modems.

--

docsDevCpe OBJECT IDENTIFIER ::= { docsDevMIBObjects 7 }

docsDevCpeEnroll OBJECT-TYPE

SYNTAX INTEGER {

none(1),

any(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls the population of
docsDevFilterCpeTable.

If set to none, the filters must be set manually
by a network management action (either configuration
or SNMP set).

If set to any, the CM wiretaps the packets originating
from the ethernet and enrolls up to docsDevCpeIpMax
addresses as based on the source IPv4 or v6 addresses of
those packets."

DEFVAL { any }

::= { docsDevCpe 1 }

docsDevCpeIpMax OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls the maximum number of CPEs allowed
to be learned behind this device. If set to zero, any
number of CPEs may connect up to the maximum permitted
for the device.

If set to -1, no filtering

is done on CPE source

addresses, and no entries are made in the
docsDevFilterCpeTable via learning. If an attempt is
made to set this to a number greater than that
permitted for the device, it is set to that maximum."

DEFVAL { -1 }

::= { docsDevCpe 2 }

docsDevCpeTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevCpeEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This table lists the IPv4 addresses seen (or permitted) as source addresses in packets originating from the customer interface on this device. In addition, this table can be provisioned with the specific addresses permitted for the CPEs via the normal row creation mechanisms. Table entries MUST NOT persist across reboots for any device.

N.B. Management action can add entries in this table and
in docsDevCpeIpTable past the value of

docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the ability of the CM to add learned addresses automatically.

This table is deprecated and is replaced by
docsDevCpeInetTable."
::= { docsDevCpe 3 }

docsDevCpeEntry OBJECT-TYPE

SYNTAX DocsDevCpeEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry in the docsDevFilterCpeTable. There is one entry for each IPv4 CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored; otherwise, upon receipt of an IP packet from the customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any

and the sum of the table sizes of docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable)."

```
INDEX { docsDevCpeIp }  
::= { docsDevCpeTable 1 }
```

```
DocsDevCpeEntry ::= SEQUENCE {  
    docsDevCpeIp    IpAddress,  
    docsDevCpeSource INTEGER,  
    docsDevCpeStatus RowStatus  
}
```

docsDevCpeIp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The IPv4 address to which this entry applies.

N.B. Attempts to set all zeros or all ones address
values MUST
be rejected."

```
::= { docsDevCpeEntry 1 }
```

docsDevCpeSource OBJECT-TYPE

SYNTAX INTEGER {

other(1),

manual(2),

learned(3)

}

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"This object describes how this entry was created. If
the value is manual(2), this row was created by a
network management action (either configuration or
SNMP set). If set to learned(3), then it was found via
looking at the source IPv4 address of a received packet.
The value other(1) is used for any entries that do not
meet manual(2) or learned(3) criteria."

```
::= { docsDevCpeEntry 2 }
```

docsDevCpeStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Standard object to manipulate rows. To create a row in this table, one only needs to specify this object.

Management stations SHOULD use the create-and-go mechanism for creating rows in this table."

```
::= { docsDevCpeEntry 3 }
```

```
--
```

```
-- Internet CPE Management and anti spoofing group, for support of
```

```
-- non-IPv4 CPEs.
```

```
--
```

docsDevCpeInetTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevCpeInetEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists the IP addresses seen (or permitted) as source addresses in packets originating from the customer interface on this device. In addition, this table can be provisioned with the specific addresses permitted for the CPEs via the normal row creation mechanisms.

N.B. Management action can add entries in this table and in docsDevCpeIpTable past the value of docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the

ability of the CM to add learned addresses automatically.

Table entries MUST NOT persist across reboots for any device.

This table exactly mirrors docsDevCpeTable and applies to IPv4 and IPv6 addresses."

```
::= { docsDevCpe 4 }
```

docsDevCpeInetEntry OBJECT-TYPE

SYNTAX DocsDevCpeInetEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the docsDevFilterCpeInetTable. There is one entry for each IP CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored;

otherwise, upon receipt of an IP packet from the customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any and the

sum of the table sizes for docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable).

When an agent (cable modem) restarts, then all dynamically created rows are lost."

```
INDEX { docsDevCpeInetType, docsDevCpeInetAddr }  
::= { docsDevCpeInetTable 1 }
```

```
DocsDevCpeInetEntry ::= SEQUENCE {  
    docsDevCpeInetType    InetAddressType,  
    docsDevCpeInetAddr    InetAddress,  
    docsDevCpeInetSource  INTEGER,  
    docsDevCpeInetRowStatus RowStatus  
}
```

docsDevCpeInetType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"The type of internet address of docsDevCpeInetAddr."

```
::= { docsDevCpeInetEntry 1 }
```

docsDevCpeInetAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Internet address to which this entry applies.

Implementors need to be aware that if the size of

docsDevCpeInetAddr exceeds 114 octets OIDs of instances of columns in this row will have more than 128 sub-identifiers and cannot be accessed using SNMPv1, SNMPv2c, or SNMPv3. Only unicast address are allowed for this object."

::= { docsDevCpeInetEntry 2 }

docsDevCpeInetSource OBJECT-TYPE

SYNTAX INTEGER {
manual(2),
learned(3)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object

describes how this entry was created. If

the value is manual(2), this row was created by a network management action (either configuration or SNMP set). If set to learned(3), then it was found via looking at the source IP address of a received packet."

::= { docsDevCpeInetEntry 3 }

docsDevCpeInetRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Standard object to manipulate rows. To create a row in this table, one only needs to specify this object.

Management stations SHOULD use the create-and-go mechanism for creating rows in this table."

::= { docsDevCpeInetEntry 4 }

--

-- Placeholder for notifications/traps.

--

-- erroneous, DO NOT USE docsDevNotification

docsDevNotification OBJECT IDENTIFIER ::= { docsDev 2 }

-- erroneous, DO NOT USE docsDevNotification

docsDevNotifications

OBJECT IDENTIFIER ::= { docsDev 0 }

--

-- RFC 2669 Conformance definitions

--

docsDevConformance OBJECT IDENTIFIER ::= { docsDev 3 }

docsDevGroups OBJECT IDENTIFIER ::= { docsDevConformance 1 }

docsDevCompliances OBJECT IDENTIFIER ::= { docsDevConformance 2 }

docsDevBasicCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"The RFC 2669 compliance statement for MCNS/DOCSIS
Cable Modems and Cable Modem Termination Systems."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup

DESCRIPTION

"Mandatory in Cable Modems, optional in Cable Modem
Termination Systems."

GROUP docsDevEventGroup

DESCRIPTION

"Mandatory in Cable Modems, optional in Cable Modem
Termination Systems."

GROUP docsDevFilterGroup

DESCRIPTION

"Mandatory in Cable Modems, optional in Cable Modem
Termination Systems."

GROUP

docsDevNmAccessGroup

DESCRIPTION

"This group is only implemented in devices that do not
implement the SNMPv3 User Security Model. It SHOULD NOT
be implemented by devices that conform to SNMPv3.

For devices that do not implement SNMPv3 or later, this
group is Mandatory in Cable Modems and is optional

in Cable Modem Termination Systems."

GROUP docsDevServerGroup

DESCRIPTION

"This group is implemented only in Cable Modems, and is not implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroup

DESCRIPTION

"This group is Mandatory in Cable Modems and optional in Cable Modem Termination Systems."

GROUP docsDevCpeGroup

DESCRIPTION

"This group is Mandatory in Cable Modems, and is not implemented in Cable Modem Termination Systems."

OBJECT docsDevSTPControl

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support noStFilterBpdu(2)."

OBJECT docsDevNmAccessIp

DESCRIPTION

"It is compliant to recognize the IP address 255.255.255.255 as referring to any NMS."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support local(0). An agent need not enforce that trap or syslog logging be accompanied by local(0) or localVolatile(3) logging."

::= { docsDevCompliances 1 }

docsDevBaseGroup OBJECT-GROUP

OBJECTS {

docsDevRole,
docsDevDateTime,

docsDevResetNow,
docsDevSerialNumber,
docsDevSTPControl

}

STATUS current
 DESCRIPTION
 "A collection of objects providing device status
 and
 control."
 ::= { docsDevGroups 1 }

docsDevNmAccessGroup OBJECT-GROUP

OBJECTS {
 docsDevNmAccessIp,
 docsDevNmAccessIpMask,
 docsDevNmAccessCommunity,
 docsDevNmAccessControl,
 docsDevNmAccessInterfaces,
 docsDevNmAccessStatus
 }
 STATUS deprecated
 DESCRIPTION
 "A collection of objects for controlling access to SNMP
 objects on cable devices.

 This group has been deprecated because all the
 objects have been deprecated in favor of SNMPv3 and
 Coexistence MIBs."
 ::= { docsDevGroups 2 }

docsDevSoftwareGroup OBJECT-GROUP

OBJECTS {
 docsDevSwServer,
 docsDevSwFilename,
 docsDevSwAdminStatus,
 docsDevSwOperStatus,
 docsDevSwCurrentVers
 }
 STATUS deprecated
 DESCRIPTION
 "A collection of objects
 for controlling software
 downloads.

 This group has been deprecated and replaced by
 docsDevSoftwareGroupV2. Object docsDevSwServer
 has been replaced by docsDevSwServerAddressType
 and docsDevSwServerAddress, and
 docsDevSwServerTransportProtocol has been added to
 support TFTP and HTTP firmware downloads."

```
::= { docsDevGroups 3 }
```

docsDevServerGroup OBJECT-GROUP

OBJECTS {

- docsDevServerBootState,
- docsDevServerDhcp,
- docsDevServerTime,
- docsDevServerTftp,
- docsDevServerConfigFile

}

STATUS deprecated

DESCRIPTION

"A collection of objects providing status about server provisioning.

This group has been deprecated and replaced by docsDevServerGroupV2. The objects docsDevServerDhcp, docsDevServerTime, and docsDevServerTftp have

been replaced by docsDevServerDhcpAddressType, docsDevServerDhcpAddress, docsDevServerTimeAddressType, docsDevServerTimeAddress, docsDevServerConfigTftpAddressType, and docsDevServerConfigTftpAddress."

```
::= { docsDevGroups 4 }
```

docsDevEventGroup OBJECT-GROUP

OBJECTS {

- docsDevEvControl,
- docsDevEvSyslog,
- docsDevEvThrottleAdminStatus,
- docsDevEvThrottleInhibited,
- docsDevEvThrottleThreshold,
- docsDevEvThrottleInterval,
- docsDevEvReporting,
- docsDevEvFirstTime,
- docsDevEvLastTime,
- docsDevEvCounts,
- docsDevEvLevel,
- docsDevEvId,
- docsDevEvText

}

STATUS deprecated

DESCRIPTION

"A collection of objects used to control and monitor events.

This group has been deprecated and replaced by
docsDevEventGroupV2.
The object docsDevEvSyslog has

been replaced by docsDevEvSyslogAddressType and
docsDevEvSyslogAddress, and docsDevEvThrottleInhibited
has been replaced by
docsDevEvThrottleThresholdExceeded."
::= { docsDevGroups 5 }

docsDevFilterGroup OBJECT-GROUP

```
OBJECTS {  
    docsDevFilterLLCUnmatchedAction,  
    docsDevFilterIpDefault,  
    docsDevFilterLLCStatus,  
    docsDevFilterLLCIfIndex,  
    docsDevFilterLLCProtocolType,  
    docsDevFilterLLCProtocol,  
    docsDevFilterLLCMatches,  
    docsDevFilterIpControl,  
    docsDevFilterIpIfIndex,  
    docsDevFilterIpStatus,  
    docsDevFilterIpDirection,  
    docsDevFilterIpBroadcast,  
    docsDevFilterIpSaddr,  
    docsDevFilterIpSmask,  
    docsDevFilterIpDaddr,  
    docsDevFilterIpDmask,  
    docsDevFilterIpProtocol,  
    docsDevFilterIpSourcePortLow,  
    docsDevFilterIpSourcePortHigh,  
    docsDevFilterIpDestPortLow,  
    docsDevFilterIpDestPortHigh,  
    docsDevFilterIpMatches,  
    docsDevFilterIpTos,  
    docsDevFilterIpTosMask,  
    docsDevFilterIpContinue,  
    docsDevFilterIpPolicyId,  
    docsDevFilterPolicyId,  
    docsDevFilterPolicyStatus,  
    docsDevFilterPolicyPtr,  
    docsDevFilterTosStatus,  
    docsDevFilterTosAndMask,  
    docsDevFilterTosOrMask  
}
```

STATUS deprecated

DESCRIPTION

"A collection of objects to specify filters at the link layer and IPv4 layer.

This group has been deprecated and replaced by various groups from the DiffServ MIB."

::= { docsDevGroups 6 }

docsDevCpeGroup OBJECT-GROUP

OBJECTS {

docsDevCpeEnroll,
docsDevCpeIpMax,
docsDevCpeSource,
docsDevCpeStatus

}

STATUS deprecated

DESCRIPTION

"A collection of objects used to control the number and specific values of IPv4 addresses allowed for associated Customer Premises Equipment (CPE).

This group has been deprecated and replaced by docsDevInetCpeGroup. The object docsDevCpeSource has been replaced by docsDevCpeInetSource, and docsDevCpeStatus has been replaced by docsDevCpeInetRowStatus."

::= { docsDevGroups 7 }

--

-- RFC 4639 Conformance definitions

--

docsDevGroupsV2 OBJECT IDENTIFIER ::= { docsDevConformance 3 }

docsDevCompliancesV2 OBJECT IDENTIFIER ::= { docsDevConformance 4 }

docsDevCmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for DOCSIS Cable Modems.

This compliance statement applies to implementations of DOCSIS versions that are not IPv6 capable."

MODULE DIFFSERV-MIB -- RFC 3289

MANDATORY-GROUPS {

diffServMIBDataPathGroup,
diffServMIBClfrGroup,
diffServMIBClfrElementGroup,
diffServMIBMultiFieldClfrGroup,
diffServMIBActionGroup,
diffServMIBDscpMarkActGroup,
diffServMIBCounterGroup,
diffServMIBAlgDropGroup

}

OBJECT diffServDataPathStatus -- same as RFC 3289

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not
required."

OBJECT diffServClfrStatus -- same as RFC 3289

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not
required."

OBJECT diffServClfrElementStatus -- same as RFC 3289

SYNTAX RowStatus { active(1)

}

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not
required."

OBJECT diffServMultiFieldClfrAddrType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4
addresses."

OBJECT diffServMultiFieldClfrSrcAddr

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4
addresses."

OBJECT diffServMultiFieldClfrDstAddr

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServAlgDropStatus -- same as RFC 3289

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServDataPathStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServClfrStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServClfrElementStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServMultiFieldClfrStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServActionStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

```

OBJECT diffServCountActStorage
    SYNTAX StorageType { volatile(2) }
    DESCRIPTION
        "An implementation is only required to support
        volatile storage."

OBJECT diffServAlgDropStorage
    SYNTAX StorageType { volatile(2) }
    DESCRIPTION
        "An implementation is only required to support
        volatile storage."

OBJECT diffServAlgDropType
    SYNTAX INTEGER { alwaysDrop(5) }
    DESCRIPTION
        "This object is only used to provide packet
        filtering. Implementations need not support other
        values of this enumeration."

MODULE -- docsDev

MANDATORY-GROUPS {
    docsDevBaseGroup,
    docsDevBaseIgmpGroup,
    docsDevBaseMaxCpeGroup,
    docsDevSoftwareGroupV2,
    docsDevServerGroupV2,
    docsDevEventGroupV2,
    docsDevFilterLLCGroup
}

-- conditionally mandatory groups

GROUP docsDevInetCpeGroup
    DESCRIPTION
        "This group is
        optional in Cable Modems."

OBJECT docsDevDateTime
    MIN-ACCESS read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl
    SYNTAX INTEGER { noStFilterBpdu(2) }
    MIN-ACCESS read-only

```

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIgmpModeControl

SYNTAX INTEGER { passive(1) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4

addresses."

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to

support IPv4

addresses."

OBJECT docsDevServerDhcpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4

addresses."

OBJECT docsDevServerDhcpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4

addresses."

OBJECT docsDevServerTimeAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4

addresses."

OBJECT docsDevServerTimeAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4

addresses."

OBJECT docsDevServerConfigTftpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT

docsDevServerConfigTftpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvSyslogAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerTransportProtocol

SYNTAX INTEGER { tftp(1) }

DESCRIPTION

"An implementation is only required to support TFTP software image downloads."

::= { docsDevCompliancesV2
1 }

docsDevCmtsCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for DOCSIS Cable Modem Termination Systems.

This compliance statement applies to implementations of DOCSIS versions that are not IPv6 capable."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseIgmpGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseMaxCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevServerGroupV2

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevEventGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevFilterLLCGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

GROUP docsDevInetCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management

MIB for similar CMTS capability."

OBJECT docsDevDateTime

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl

SYNTAX INTEGER { noStFilterBpdu(2) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIgmpModeControl

SYNTAX INTEGER { passive(1)

}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvSyslogAddress
SYNTAX InetAddress
(SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerTransportProtocol
SYNTAX INTEGER { tftp(1) }
DESCRIPTION
"An implementation is only required to support TFTP software image downloads."

::= { docsDevCompliancesV2 2 }

docsDevBaseIgmpGroup OBJECT-GROUP
OBJECTS {
docsDevIgmpModeControl
}
STATUS current
DESCRIPTION
"An object providing cable device IGMP status and control."
::= { docsDevGroupsV2 1 }

docsDevBaseMaxCpeGroup OBJECT-GROUP
OBJECTS {
docsDevMaxCpe
}
STATUS current
DESCRIPTION
"An object providing management of the maximum number of CPEs permitted access through a cable modem."
::= { docsDevGroupsV2 2 }

docsDevNmAccessExtGroup OBJECT-GROUP
OBJECTS {

docsDevNmAccessTrapVersion

}
STATUS deprecated
DESCRIPTION
"An object, in addition to the objects in docsDevNmAccessGroup, for controlling access to

SNMP objects on cable devices.

This group is included in this MIB due to existing implementations of docsDevNmAccessTrapVersion in DOCSIS cable modems.

This group has been deprecated because the object has been deprecated in favor of SNMPv3 and Coexistence MIBs."

```
::= { docsDevGroupsV2 3 }
```

docsDevSoftwareGroupV2 OBJECT-GROUP

OBJECTS {

docsDevSwFilename,
docsDevSwAdminStatus,
docsDevSwOperStatus,
docsDevSwCurrentVers,
docsDevSwServerAddressType,
docsDevSwServerAddress,
docsDevSwServerTransportProtocol

}

STATUS current

DESCRIPTION

"A collection of
objects for controlling software

downloads. This group replaces docsDevSoftwareGroup."

```
::= { docsDevGroupsV2 4 }
```

docsDevServerGroupV2 OBJECT-GROUP

OBJECTS {

docsDevServerBootState,
docsDevServerDhcpAddressType,
docsDevServerDhcpAddress,
docsDevServerTimeAddressType,
docsDevServerTimeAddress,
docsDevServerConfigTftpAddressType,
docsDevServerConfigTftpAddress,
docsDevServerConfigFile

}

STATUS current

DESCRIPTION

"A collection of objects providing status about server
provisioning. This group replaces docsDevServerGroup."

```
::= { docsDevGroupsV2 5 }
```

docsDevEventGroupV2 OBJECT-GROUP

```

OBJECTS {
    docsDevEvControl,
    docsDevEvThrottleAdminStatus,
    docsDevEvThrottleThreshold,
    docsDevEvThrottleInterval,
    docsDevEvReporting,
    docsDevEvFirstTime,
    docsDevEvLastTime,
    docsDevEvCounts,
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    docsDevEvSyslogAddressType,
    docsDevEvSyslogAddress,
    docsDevEvThrottleThresholdExceeded
}
STATUS    current
DESCRIPTION
    "A collection of objects used to control and monitor
    events. This group replaces docsDevEventGroup.
    The event reporting mechanism, and more specifically
    docsDevEvReporting, can be used to take advantage of
    the event reporting features of RFC3413 and RFC3014."
::= { docsDevGroupsV2 6 }

```

docsDevFilterLLCGroup OBJECT-GROUP

```

OBJECTS {
    docsDevFilterLLCUnmatchedAction,
    docsDevFilterLLCStatus,
    docsDevFilterLLCIfIndex,
    docsDevFilterLLCProtocolType,
    docsDevFilterLLCProtocol,
    docsDevFilterLLCMatches
}
STATUS
current
DESCRIPTION
    "A collection of objects to specify link layer filters."
::= { docsDevGroupsV2 7 }

```

docsDevInetCpeGroup OBJECT-GROUP

```

OBJECTS {
    docsDevCpeEnroll,
    docsDevCpeIpMax,
    docsDevCpeInetSource,
    docsDevCpeInetRowStatus
}
STATUS    current

```

DESCRIPTION

"A collection of objects used to control the number and specific values of Internet (e.g., IPv4 and IPv6) addresses allowed for associated Customer Premises Equipment (CPE)."

::= { docsDevGroupsV2 8 }

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-CABLE-DEVICE-MIB

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

DIFFSERV-MIB DEFINITIONS ::= BEGIN

IMPORTS

Unsigned32, Counter64, MODULE-IDENTITY, OBJECT-TYPE,
OBJECT-IDENTITY, zeroDotZero, mib-2

FROM SNMPv2-SMI

TEXTUAL-CONVENTION, RowStatus, RowPointer,
StorageType, AutonomousType

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP

FROM SNMPv2-CONF

ifIndex, InterfaceIndexOrZero

FROM IF-MIB

InetAddressType, InetAddress, InetAddressPrefixLength,
InetPortNumber

FROM INET-ADDRESS-MIB

BurstSize

FROM INTEGRATED-SERVICES-MIB

Dscp, DscpOrAny

FROM DIFFSERV-DSCP-TC;

diffServMib MODULE-IDENTITY

LAST-UPDATED "200202070000Z"

ORGANIZATION "IETF Differentiated Services WG"

CONTACT-INFO

" Fred Baker
Cisco Systems
1121 Via Del Rey
Santa Barbara, CA 93117, USA
E-mail: fred@cisco.com

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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:

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

or, if appropriate:

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

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:

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

or, if appropriate:

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

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):
* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB
No license file was found, but licenses were detected in source scan.

RADIUS-ACC-CLIENT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
    Counter32, Integer32, Gauge32,
    IpAddress, TimeTicks, mib-2    FROM SNMPv2-SMI
    SnmpAdminString                FROM SNMP-FRAMEWORK-MIB
    InetAddressType, InetAddress,
    InetPortNumber                FROM INET-ADDRESS-MIB
    MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

radiusAccClientMIB MODULE-IDENTITY
    LAST-UPDATED "200608210000Z" -- 21 August 2006
    ORGANIZATION "IETF RADIUS Extensions Working Group."
    CONTACT-INFO
        " Bernard Aboba
        Microsoft

```

One Microsoft Way

Redmond, WA 98052

US

Phone: +1 425 936 6605

EMail: bernarda@microsoft.com"

DESCRIPTION

"The MIB module for entities implementing the client side of the Remote

Authentication Dial-In User Service

(RADIUS) accounting protocol. Copyright (C) The Internet Society (2006). This version of this MIB module is part of RFC 4670; see the RFC itself for full legal notices."

REVISION "200608210000Z" -- 21 August 2006

DESCRIPTION

"Revised version as published in RFC 4670. This version obsoletes that of RFC 2620 by deprecating the MIB table containing IPv4-only address formats and defining a new table to add support for version-neutral IP address formats. The remaining MIB objects from RFC 2620 are carried forward into this version."

REVISION "199906110000Z" -- 11 Jun 1999

DESCRIPTION "Initial version as published in RFC 2620."

::= { radiusAccounting 2 }

radiusMIB OBJECT-IDENTITY

STATUS current

DESCRIPTION

"The OID assigned to RADIUS MIB work by the IANA."

::= { mib-2 67 }

radiusAccounting OBJECT IDENTIFIER ::= {radiusMIB 2}

radiusAccClientMIBObjects OBJECT IDENTIFIER

::= { radiusAccClientMIB 1 }

radiusAccClient OBJECT IDENTIFIER

::= { radiusAccClientMIBObjects 1 }

radiusAccClientInvalidServerAddresses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets received from unknown addresses."

::= { radiusAccClient 1 }

radiusAccClientIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The NAS-Identifier of the RADIUS accounting client. This is not necessarily the same as sysName in MIB II."

REFERENCE "RFC 2865 section 5.32"

::= { radiusAccClient 2 }

radiusAccServerTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."

::= { radiusAccClient 3 }

radiusAccServerEntry OBJECT-TYPE

SYNTAX RadiusAccServerEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."

INDEX { radiusAccServerIndex }

::= { radiusAccServerTable 1 }

RadiusAccServerEntry ::= SEQUENCE {

radiusAccServerIndex Integer32,

radiusAccServerAddress IpAddress,

radiusAccClientServerPortNumber Integer32,

radiusAccClientRoundTripTime TimeTicks,

radiusAccClientRequests Counter32,

radiusAccClientRetransmissions

Counter32,

radiusAccClientResponses Counter32,

radiusAccClientMalformedResponses	Counter32,
radiusAccClientBadAuthenticators	Counter32,
radiusAccClientPendingRequests	Gauge32,
radiusAccClientTimeouts	Counter32,
radiusAccClientUnknownTypes	Counter32,
radiusAccClientPacketsDropped	Counter32

}

radiusAccServerIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A number uniquely identifying each RADIUS Accounting server with which this client communicates."

::= { radiusAccServerEntry 1 }

radiusAccServerAddress OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the RADIUS accounting server

referred to in this table entry."

::= { radiusAccServerEntry 2 }

radiusAccClientServerPortNumber OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The UDP port the client is using to send requests to this server."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 3 }

radiusAccClientRoundTripTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The time interval between the most recent

Accounting-Response and the Accounting-Request that
matched it from this RADIUS accounting server."
REFERENCE "RFC 2866 section 2"
::= { radiusAccServerEntry 4 }

-- Request/Response statistics
--
-- Requests = Responses + PendingRequests + ClientTimeouts
--
-- Responses - MalformedResponses - BadAuthenticators -
-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientRequests
OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
 "The number of RADIUS Accounting-Request packets
 sent. This does not include retransmissions."
REFERENCE "RFC 2866 section 4.1"
::= { radiusAccServerEntry 5 }

radiusAccClientRetransmissions OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
 "The number of RADIUS Accounting-Request packets
 retransmitted to this RADIUS accounting server.
 Retransmissions include retries where the
 Identifier and Acct-Delay have been updated, as
 well as those in which they remain the same."
REFERENCE "RFC 2866 section 2"
::= { radiusAccServerEntry 6 }

radiusAccClientResponses OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS deprecated

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerEntry 7 }

radiusAccClientMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 8 }

radiusAccClientBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Response packets that contained invalid authenticators received from this server."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 9 }

radiusAccClientPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent to this server that have not yet timed out or received a response. This variable is incremented when an Accounting-Request is sent and decremented due to receipt of an Accounting-Response, a timeout, or a retransmission."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 10 }

radiusAccClientTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of accounting timeouts to this server.

After a timeout, the client may retry to the same

server, send to a different server, or give up.

A retry to the same server is counted as a

retransmit as well as a timeout. A send to a different

server is counted as an Accounting-Request as well as

a timeout."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 11 }

radiusAccClientUnknownTypes OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets of unknown type that

were received from this server on the accounting port."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerEntry 12 }

radiusAccClientPacketsDropped OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets that were received from

this server on the accounting port and dropped for some

other reason."

::= { radiusAccServerEntry 13 }

-- New MIB objects added in this revision

radiusAccServerExtTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerExtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."

::= { radiusAccClient 4 }

radiusAccServerExtEntry OBJECT-TYPE

SYNTAX RadiusAccServerExtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."

INDEX { radiusAccServerExtIndex }

::= { radiusAccServerExtTable 1 }

RadiusAccServerExtEntry ::= SEQUENCE {

radiusAccServerExtIndex Integer32,

radiusAccServerInetAddressType InetAddressType,

radiusAccServerInetAddress

InetAddress,

radiusAccClientServerInetPortNumber InetPortNumber,

radiusAccClientExtRoundTripTime TimeTicks,

radiusAccClientExtRequests Counter32,

radiusAccClientExtRetransmissions Counter32,

radiusAccClientExtResponses Counter32,

radiusAccClientExtMalformedResponses Counter32,

radiusAccClientExtBadAuthenticators Counter32,

radiusAccClientExtPendingRequests Gauge32,

radiusAccClientExtTimeouts Counter32,

radiusAccClientExtUnknownTypes Counter32,

radiusAccClientExtPacketsDropped Counter32,

radiusAccClientCounterDiscontinuity TimeTicks

}

radiusAccServerExtIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A number uniquely identifying each RADIUS
Accounting server
with which this client
communicates."
::= { radiusAccServerExtEntry 1 }

radiusAccServerInetAddressType OBJECT-TYPE

SYNTAX InetAddressType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of address format used for the
radiusAccServerInetAddress object."
::= { radiusAccServerExtEntry 2 }

radiusAccServerInetAddress OBJECT-TYPE

SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The IP address of the RADIUS accounting
server referred to in this table entry, using
the version-neutral IP address format."
::= { radiusAccServerExtEntry 3 }

radiusAccClientServerInetPortNumber OBJECT-TYPE

SYNTAX InetPortNumber (1..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The UDP port the client is using
to send requests
to this accounting server. The value zero (0) is
invalid."
REFERENCE "RFC 2866 section 3"
::= { radiusAccServerExtEntry 4 }

radiusAccClientExtRoundTripTime OBJECT-TYPE

SYNTAX TimeTicks
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The time interval between the most recent Accounting-Response and the Accounting-Request that matched it from this RADIUS accounting server."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 5 }

-- Request/Response statistics

--

-- Requests = Responses + PendingRequests + ClientTimeouts

--

-- Responses - MalformedResponses - BadAuthenticators -

-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientExtRequests OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent. This does not include retransmissions. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.1"

::= { radiusAccServerExtEntry 6 }

radiusAccClientExtRetransmissions OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets retransmitted to this RADIUS accounting server.

Retransmissions include retries where the Identifier and Acct-Delay have been updated, as well as those in which they remain the same. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 7 }

radiusAccClientExtResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerExtEntry 8 }

radiusAccClientExtMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 9 }

radiusAccClientExtBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets that contained invalid authenticators received from this server. This counter may

experience a discontinuity when the RADIUS
Accounting Client
module within the managed
entity is reinitialized, as indicated by the
current value of
radiusAccClientCounterDiscontinuity."
REFERENCE "RFC 2866 section 3"
::= { radiusAccServerExtEntry 10 }

radiusAccClientExtPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets
sent to this server that have not yet timed out or
received a response. This variable is incremented
when an Accounting-Request is sent and decremented
due to receipt of an Accounting-Response, a timeout,
or a retransmission. This counter may experience a
discontinuity when the RADIUS Accounting Client module
within the managed entity is reinitialized, as
indicated by the current value of
radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 11 }

radiusAccClientExtTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accounting timeouts to this server.
After a timeout, the client may retry to the same
server, send to a different server, or give up.
A retry to the same server is counted as a
retransmit as well as a timeout. A send to a different
server is counted as an Accounting-Request as well as
a timeout. This counter may experience a discontinuity
when the RADIUS Accounting Client module within the
managed entity is reinitialized, as indicated by the
current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 12 }

radiusAccClientExtUnknownTypes OBJECT-TYPE

SYNTAX

Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerExtEntry 13 }

radiusAccClientExtPacketsDropped OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets that were received from this server on the accounting port and dropped for some other reason. This counter may experience a discontinuity when the RADIUS Accounting Client module within

the managed entity is reinitialized, as indicated

by the current value of

radiusAccClientCounterDiscontinuity."

::= { radiusAccServerExtEntry 14 }

radiusAccClientCounterDiscontinuity OBJECT-TYPE

SYNTAX TimeTicks

UNITS "centiseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of centiseconds since the last discontinuity in the RADIUS Accounting Client counters. A discontinuity may be the result of a reinitialization of the RADIUS Accounting Client module within the managed entity."

::= { radiusAccServerExtEntry 15 }

```

-- conformance information

radiusAccClientMIBConformance OBJECT IDENTIFIER
    ::= { radiusAccClientMIB 2 }

radiusAccClientMIBCompliances OBJECT IDENTIFIER
    ::= { radiusAccClientMIBConformance 1 }

radiusAccClientMIBGroups OBJECT IDENTIFIER
    ::= { radiusAccClientMIBConformance
        2 }

-- units of conformance

radiusAccClientMIBCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The compliance statement for accounting clients
        implementing the RADIUS Accounting Client MIB.
        Implementation of this module is for IPv4-only
        entities, or for backwards compatibility use with
        entities that support both IPv4 and IPv6."
    MODULE -- this module
        MANDATORY-GROUPS { radiusAccClientMIBGroup }

    ::= { radiusAccClientMIBCompliances 1 }

radiusAccClientExtMIBCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for accounting
        clients implementing the RADIUS Accounting
        Client IPv6 Extensions MIB. Implementation of
        this module is for entities that support IPv6,
        or support IPv4 and IPv6."
    MODULE -- this module
        MANDATORY-GROUPS { radiusAccClientExtMIBGroup }

    OBJECT
radiusAccServerInetAddressType
    SYNTAX InetAddressType { ipv4(1), ipv6(2) }

```


DESCRIPTION

"An implementation is only required to support
IPv4 and globally unique IPv6 addresses."

OBJECT radiusAccServerInetAddress

SYNTAX InetAddress (SIZE (4|16))

DESCRIPTION

"An implementation is only required to support
IPv4 and globally unique IPv6 addresses."

::= { radiusAccClientMIBCompliances 2 }

-- units of conformance

radiusAccClientMIBGroup OBJECT-GROUP

OBJECTS { radiusAccClientIdentifier,
radiusAccClientInvalidServerAddresses,
radiusAccServerAddress,
radiusAccClientServerPortNumber,
radiusAccClientRoundTripTime,
radiusAccClientRequests,
radiusAccClientRetransmissions,
radiusAccClientResponses,
radiusAccClientMalformedResponses,
radiusAccClientBadAuthenticators,

radiusAccClientPendingRequests,
radiusAccClientTimeouts,
radiusAccClientUnknownTypes,
radiusAccClientPacketsDropped
}

STATUS deprecated

DESCRIPTION

"The basic collection of objects providing management of
RADIUS Accounting Clients."

::= { radiusAccClientMIBGroups 1 }

radiusAccClientExtMIBGroup OBJECT-GROUP

OBJECTS { radiusAccClientIdentifier,
radiusAccClientInvalidServerAddresses,
radiusAccServerInetAddressType,
radiusAccServerInetAddress,
radiusAccClientServerInetPortNumber,

```

        radiusAccClientExtRoundTripTime,
        radiusAccClientExtRequests,
        radiusAccClientExtRetransmissions,
        radiusAccClientExtResponses,
        radiusAccClientExtMalformedResponses,
        radiusAccClientExtBadAuthenticators,
        radiusAccClientExtPendingRequests,

radiusAccClientExtTimeouts,
        radiusAccClientExtUnknownTypes,
        radiusAccClientExtPacketsDropped,
        radiusAccClientCounterDiscontinuity

    }
STATUS current
DESCRIPTION
    "The basic collection of objects providing management of
    RADIUS Accounting Clients."
 ::= { radiusAccClientMIBGroups 2 }

```

END

Found in path(s):

* /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.

MIOX25-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

    Counter,
    TimeTicks
        FROM RFC1155-SMI
    OBJECT-TYPE
        FROM RFC-1212
    DisplayString, transmission,
    ifIndex
        FROM RFC1213-MIB
    InstancePointer
        FROM RFC1316-MIB
    X121Address
        FROM RFC1382-MIB
    PositiveInteger
        FROM RFC1381-MIB;

    -- IP over X.25 MIB

```

```

miox OBJECT IDENTIFIER ::= { transmission 38 }

mioxPle OBJECT IDENTIFIER ::= { miox 1 }
mioxPeer OBJECT IDENTIFIER ::= { miox 2 }

-- #####
-- Ple Table
-- #####

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioxPleTable OBJECT-TYPE
    SYNTAX SEQUENCE OF MioxPleEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "This table contains information relative to
        an interface to an X.25 Packet Level Entity
        (PLE)."
    ::= { mioxPle 1 }

mioxPleEntry OBJECT-TYPE
    SYNTAX MioxPleEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "These objects manage the encapsulation of
        other protocols within X.25."
    INDEX { ifIndex }
    ::= { mioxPleTable 1 }

MioxPleEntry ::= SEQUENCE {
    mioxPleMaxCircuits
        INTEGER,
    mioxPleRefusedConnections
        Counter,
    mioxPleEnAddrToX121LkupFlrs
        Counter,
    mioxPleLastFailedEnAddr
        OCTET STRING,
    mioxPleEnAddrToX121LkupFlrTime
        TimeTicks,
    mioxPleX121ToEnAddrLkupFlrs
        Counter,
    mioxPleLastFailedX121Address
        X121Address,

```

```

mioxPleX121ToEnAddrLkupFlrTime
    TimeTicks,
mioxPleQbitFailures
    Counter,
mioxPleQbitFailureRemoteAddress
    X121Address,
mioxPleQbitFailureTime
    TimeTicks,
mioxPleMinimumOpenTimer
    PositiveInteger,
mioxPleInactivityTimer
    PositiveInteger,
mioxPleHoldDownTimer
    PositiveInteger,
mioxPleCollisionRetryTimer
    PositiveInteger,
mioxPleDefaultPeerId
    InstancePointer
}

```

mioxPleMaxCircuits OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The maximum number of X.25 circuits that can be open at one time for this interface.

A value of zero indicates the interface will not allow any additional circuits (as it may soon be shutdown). A value of 2147483647 allows an unlimited number of circuits."

::= { mioxPleEntry 1 }

mioxPleRefusedConnections OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of X.25 calls from a remote systems to this system that were cleared by this system. The interface instance should identify the X.25 interface the call came in on."

::= { mioxPleEntry 2 }

mioxPleEnAddrToX121LkupFlrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times a translation from an Encapsulated Address to an X.121 address failed to find a corresponding X.121 address. Encapsulated addresses can be looked up in the mioxPeerTable or translated via an algorithm as for the DDN. Addresses

that are successfully recognized do not increment this counter. Addresses that are not recognized (reflecting an abnormal packet delivery condition) increment this counter.

If an address translation fails, it may be difficult to determine which PLE entry should count the failure. In such cases the first likely entry in this table should be selected. Agents should record the failure even if they are unsure which PLE should be associated with the failure."

::= { mioxPleEntry 3 }

mioxPleLastFailedEnAddr OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(2..128))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The last Encapsulated address that failed to find a corresponding X.121 address and caused mioxPleEnAddrToX121LkupFlrs

to be

incremented. The first octet of this object contains the encapsulation type, the remaining octets contain the address of that type that failed. Thus for an IP address, the length will be five octets, the first octet will contain 204 (hex CC), and the last four octets will contain the IP address. For a snap encapsulation, the first byte would be 128 (hex 80) and the rest of the octet string would have the snap header."

::= { mioxPleEntry 4 }

mioxPleEnAddrToX121LkupFlrTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The most recent value of sysUpTime when the translation from an Encapsulated Address to X.121 address failed to find a corresponding X.121 address."
::= { mioxPleEntry 5 }

mioxPleX121ToEnAddrLkupFlrs OBJECT-TYPE
 SYNTAX Counter
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "The number of times the translation from an X.121 address to an Encapsulated Address failed to find a corresponding Encapsulated Address. Addresses successfully recognized by an algorithm do not increment this counter. This counter reflects the number of times call acceptance encountered the abnormal condition of not recognizing the peer."
 ::= { mioxPleEntry 6 }

mioxPleLastFailedX121Address OBJECT-TYPE
 SYNTAX X121Address
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "The last X.121 address that caused mioxPleX121ToEnAddrLkupFlrs to increase."
 ::= { mioxPleEntry 7 }

mioxPleX121ToEnAddrLkupFlrTime
OBJECT-TYPE
 SYNTAX TimeTicks
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "The most recent value of sysUpTime when the translation from an X.121 address to an Encapsulated Address failed to find a corresponding Encapsulated Address."
 ::= { mioxPleEntry 8 }

mioxPleQbitFailures OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The number of times a connection was closed
 because of a Q-bit failure."
::= { mioxPleEntry 9 }

mioxPleQbitFailureRemoteAddress OBJECT-TYPE

SYNTAX X121Address
ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The remote address of the most recent
 (last) connection that was closed because of
 a Q-bit failure."
::= { mioxPleEntry 10 }

mioxPleQbitFailureTime OBJECT-TYPE

SYNTAX TimeTicks
ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The most recent value of sysUpTime when a
 connection was closed because of a Q-bit
 failure. This will also be the last time
 that mioxPleQbitFailures was incremented."
::= { mioxPleEntry 11 }

mioxPleMinimumOpenTimer OBJECT-TYPE

SYNTAX PositiveInteger
ACCESS read-write
STATUS mandatory
DESCRIPTION
 "The minimum time in milliseconds this
 interface will keep a connection open before
 allowing it to be closed. A value of zero
 indicates no timer."
DEFVAL { 0 }
::= { mioxPleEntry 12 }

mioxPleInactivityTimer OBJECT-TYPE

SYNTAX PositiveInteger
ACCESS read-write
STATUS mandatory
DESCRIPTION
 "The amount of time time in milliseconds

this interface will
keep an idle connection
 open before closing it. A value of
 2147483647 indicates no timer."
DEFVAL { 10000 }
::= { mioxPleEntry 13 }

mioxPleHoldDownTimer OBJECT-TYPE

SYNTAX PositiveInteger
ACCESS read-write
STATUS mandatory
DESCRIPTION
 "The hold down timer in milliseconds. This
 is the minimum amount of time to wait before
 trying another call to a host that was
 previously unsuccessful. A value of
 2147483647 indicates the host will not be
 retried."
DEFVAL { 0 }
::= { mioxPleEntry 14 }

mioxPleCollisionRetryTimer OBJECT-TYPE

SYNTAX PositiveInteger
ACCESS read-write
STATUS mandatory
DESCRIPTION
 "The Collision Retry Timer in milliseconds.
 The time to delay between call attempts when
 the maximum number of circuits
is exceeded
 in a call attempt."
DEFVAL { 0 }
::= { mioxPleEntry 15 }

mioxPleDefaultPeerId OBJECT-TYPE

SYNTAX InstancePointer
ACCESS read-write
STATUS mandatory
DESCRIPTION
 "This identifies the instance of the index
 in the mioxPeerTable for the default
 parameters to use with this interface.

 The entry identified by this object may have
 a zero length Encapsulation address and a
 zero length X.121 address.

These default parameters are used with connections to hosts that do not have entries in the mioxPeerTable. Such connections occur when using ddn-x25 IP-X.25 address mapping or when accepting connections from other hosts not in the mioxPeerTable.

The mioxPeerEncTable entry with the same

index as the mioxPeerTable entry specifies the call encapsulation types this PLE will accept for peers not in the mioxPeerTable. If the mioxPeerEncTable doesn't contain any entries, this PLE will not accept calls from entries not in the mioxPeerTable."

::= { mioxPleEntry 16 }

```
-- #####  
--      Peer Table  
-- #####
```

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioxPeerTable OBJECT-TYPE

SYNTAX SEQUENCE OF MioxPeerEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"This table contains information about the possible peers this machine may exchange packets with."

::= { mioxPeer 1 }

mioxPeerEntry OBJECT-TYPE

SYNTAX MioxPeerEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Per peer information."

INDEX { mioxPeerIndex }

::= { mioxPeerTable 1 }

```

MioxPeerEntry ::= SEQUENCE {
    mioxPeerIndex
        PositiveInteger,
    mioxPeerStatus
        INTEGER,
    mioxPeerMaxCircuits
        PositiveInteger,
    mioxPeerIfIndex
        PositiveInteger,
    mioxPeerConnectSeconds
        Counter,
    mioxPeerX25CallParamId
        InstancePointer,
    mioxPeerEnAddr
        OCTET STRING,
    mioxPeerX121Address
        X121Address,
    mioxPeerX25CircuitId
        InstancePointer,
    mioxPeerDescr
        DisplayString
}

```

mioxPeerIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-only

STATUS mandatory

DESCRIPTION

"An index value that distinguished one entry
from another.

This index is independent of
any other index."

::= { mioxPeerEntry 1 }

-- Systems can claim conformance with this MIB without
-- implementing sets to mioxPeerStatus with a value of
-- clearCall or makeCall.
-- All other defined values must be accepted.
-- Implementors should realize that allowing these values
-- provides richer management, and implementations
-- are encouraged to accept these values.

mioxPeerStatus OBJECT-TYPE

SYNTAX INTEGER {

valid (1),

createRequest (2),

underCreation (3),

invalid (4),

clearCall (5),

makeCall (6)

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This reports the status of a peer entry.

A value of valid indicates a normal entry that is in use by the agent. A value of

underCreation indicates a newly created entry which isn't yet in use because the creating management station is still setting values.

The value of invalid indicates the entry is no longer in use and the agent is free to delete the entry at any time. A management station is also free to use an entry in the invalid state.

Entries are created by setting a value of createRequest. Only non-existent or invalid entries can be set to createRequest. Upon receiving a valid createRequest, the agent will create an entry in the underCreation state. This object can not be set to a value of underCreation directly, entries can only be created by setting a value of createRequest. Entries that exist in other

than the invalid state can not be set to createRequest.

Entries with a value of underCreation are not used by the system and the management station can change the values of other objects in the table entry. Management stations should also remember to configure values in the mioxPeerEncTable with the same peer index value as this peer entry.

An entry in the underCreation state can be set to valid or invalid. Entries in the underCreation state will stay in that state until 1) the agent times them out, 2) they are set to valid, 3) they are set to invalid. If an agent notices an entry has been in the underCreation state for an

abnormally long time, it may decide the management station has failed and invalidate

the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.

Once a management station has completed all fields of an entry, it will set a value of valid. This causes the entry to be activated.

Entries in the valid state may also be set to makeCall or clearCall to make or clear X.25 calls to the peer. After such a set request the entry will still be in the valid state. Setting a value of makeCall causes the agent to initiate an X.25 call request to the peer specified by the entry. Setting a value of clearCall causes the agent to initiate clearing one X.25 call present

to

the peer. Each set request will initiate another call or clear request (up to the maximum allowed); this means that management stations that fail to get a response to a set request should query to see if a call was in fact placed or cleared before retrying the request. Entries not in the valid state can not be set to makeCall or clearCall.

The values of makeCall and clearCall provide for circuit control on devices which perform Ethernet Bridging using static circuit assignment without address recognition; other devices which dynamically place calls based on destination addresses may reject such requests.

An agent that (re)creates a new entry because of a set with createRequest, should

also (re)create a mioxPeerEncTable entry with a mioxPeerEncIndex of 1, and a mioxPeerEncType of 204 (hex CC)."

::= { mioxPeerEntry 2 }

mioxPeerMaxCircuits OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The maximum number of X.25 circuits allowed to this peer."

DEFVAL { 1 }

::= { mioxPeerEntry 3 }

mioxPeerIfIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The value of the ifIndex object for the interface to X.25 to use to call the peer."

DEFVAL { 1 }

::= { mioxPeerEntry 4 }

mioxPeerConnectSeconds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of seconds a call to this peer was active. This counter

will be

incremented by one for every second a connection to a peer was open. If two calls are open at the same time, one second of elapsed real time will 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 mioxPeerEncTable
        with the same mioxPeerIndex and with an
        mioxPeerEncIndex higher then the deleted
        entry, will all have their mioxPeerEncIndex
        values decremented by one."
 ::= { mioxPeerEncEntry 2 }

-- #####

END

Found in path(s):
* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-MIB
No license file was found, but licenses were detected in source scan.

RFC1158-MIB DEFINITIONS ::= BEGIN

IMPORTS
    mgmt, OBJECT-TYPE, NetworkAddress, IPAddress,
    Counter, Gauge, TimeTicks
    FROM RFC1155-SMI;

```

```

DisplayString ::=
    OCTET STRING

mib-2    OBJECT IDENTIFIER ::= { mgmt 1 }    -- MIB-II
        -- (same prefix as MIB-I)

system   OBJECT IDENTIFIER ::= { mib-2 1 }
interfaces OBJECT IDENTIFIER ::= { mib-2 2 }
at       OBJECT IDENTIFIER ::= { mib-2 3 }
ip       OBJECT IDENTIFIER ::= { mib-2 4 }
icmp     OBJECT IDENTIFIER ::= { mib-2 5 }
tcp      OBJECT IDENTIFIER ::= { mib-2 6 }
udp      OBJECT IDENTIFIER ::= { mib-2 7 }
egp      OBJECT IDENTIFIER ::= { mib-2 8 }
-- cmot  OBJECT IDENTIFIER ::= { mib-2 9 }
transmission OBJECT IDENTIFIER ::= { mib-2 10 }
snmp     OBJECT IDENTIFIER ::= { mib-2 11 }

-- object types

-- the System group

sysDescr OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-only
    STATUS  mandatory
    ::= { system 1 }

sysObjectID OBJECT-TYPE
    SYNTAX  OBJECT IDENTIFIER
    ACCESS  read-only
    STATUS  mandatory
    ::= { system 2 }

sysUpTime OBJECT-TYPE
    SYNTAX  TimeTicks
    ACCESS  read-only
    STATUS  mandatory
    ::= { system 3 }

sysContact OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-write
    STATUS  mandatory
    ::= { system 4 }

```

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-only

STATUS mandatory

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

ACCESS read-only

STATUS mandatory

::= { system 7 }

-- the Interfaces group

ifNumber OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS

mandatory

::= { interfaces 1 }

-- the Interfaces table

ifTable OBJECT-TYPE

SYNTAX SEQUENCE OF IfEntry

ACCESS read-only

STATUS mandatory

::= { interfaces 2 }

ifEntry OBJECT-TYPE

SYNTAX IfEntry

ACCESS read-only

STATUS mandatory

::= { ifTable 1 }

IfEntry ::= SEQUENCE {

ifIndex

INTEGER,

ifDescr

DisplayString,

ifType

```

    INTEGER,
ifMtu
    INTEGER,
ifSpeed
    Gauge,
ifPhysAddress
    OCTET STRING,
ifAdminStatus
    INTEGER,
ifOperStatus
    INTEGER,
ifLastChange
    TimeTicks,
ifInOctets
    Counter,
ifInUcastPkts
    Counter,
ifInNUcastPkts
    Counter,
ifInDiscards
    Counter,
ifInErrors
    Counter,
ifInUnknownProtos
    Counter,
ifOutOctets
    Counter,
ifOutUcastPkts
    Counter,
ifOutNUcastPkts
    Counter,
ifOutDiscards
    Counter,
ifOutErrors
    Counter,
ifOutQLen
    Gauge,
ifSpecific
    OBJECT IDENTIFIER
}

```

```

ifIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 1 }

```

```

ifDescr OBJECT-TYPE

```

SYNTAX DisplayString (SIZE (0..255))
ACCESS read-only
STATUS mandatory
::= { ifEntry 2 }

ifType OBJECT-TYPE

SYNTAX INTEGER {
 other(1), -- none of the
 -- following
 regular1822(2),
 hdlc(3),
 ddn-x25(4),
 rfc877-x25(5),
 ethernet-csmacd(6),
 iso88023-csmacd(7),
 iso88024-tokenBus(8),
 iso88025-tokenRing(9),
 iso88026-man(10),
 starLan(11),
 proteon-10Mbit(12),
 proteon-80Mbit(13),
 hyperchannel(14),
 fddi(15),
 lapb(16),
 sdlc(17),
 t1-carrier(18),
 cept(19), -- european
 --equivalent of T-1
 basicISDN(20),
 primaryISDN(21),
 -- proprietary
 -- serial
 propPointToPointSerial(22),
 terminalServer-asyncPort(23),
 softwareLoopback(24),
 eon(25), -- CLNP over IP
 ethernet-3Mbit(26),
 nsip(27), -- XNS over IP
 slip(28) -- generic SLIP
}

ACCESS read-only
STATUS mandatory
::= { ifEntry 3 }

ifMtu OBJECT-TYPE

SYNTAX INTEGER
ACCESS read-only
STATUS mandatory

::= { ifEntry 4 }

ifSpeed

OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

::= { ifEntry 5 }

ifPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-only

STATUS mandatory

::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-write

STATUS mandatory

::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-only

STATUS mandatory

::= { ifEntry 8 }

ifLastChange OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

::= { ifEntry 9 }

ifInOctets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 13 }

ifInErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 14 }

ifInUnknownProtos OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 17 }

ifOutNUcastPkts

OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE

SYNTAX Gauge
ACCESS read-only
STATUS mandatory
::= { ifEntry 21 }

ifSpecific OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER
ACCESS read-only
STATUS mandatory
::= { ifEntry 22 }

nullSpecific OBJECT IDENTIFIER ::= { 0 0 }

-- the Address Translation group (deprecated)

atTable OBJECT-TYPE

SYNTAX SEQUENCE OF AtEntry
ACCESS read-write
STATUS deprecated
::= { at 1 }

atEntry OBJECT-TYPE

SYNTAX AtEntry
ACCESS read-write
STATUS deprecated
::= { atTable 1 }

AtEntry ::=

SEQUENCE {
 atIfIndex
 INTEGER,
 atPhysAddress
 OCTET STRING,
 atNetAddress
 NetworkAddress

}

atIfIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS deprecated
::= { atEntry 1 }

atPhysAddress OBJECT-TYPE
SYNTAX OCTET STRING
ACCESS read-write
STATUS deprecated
::= { atEntry 2 }

atNetAddress OBJECT-TYPE
SYNTAX NetworkAddress
ACCESS read-write
STATUS deprecated
::= { atEntry 3 }

-- the IP group

ipForwarding OBJECT-TYPE
SYNTAX INTEGER {
 gateway(1), -- entity forwards
 -- datagrams
 host(2) -- entity does NOT
 -- forward datagrams
}
ACCESS read-write
STATUS mandatory
::= { ip 1 }

ipDefaultTTL OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
::=
{ ip 2 }

ipInReceives OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 3 }

ipInHdrErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 4 }

ipInAddrErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 5 }

ipForwDatagrams OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= {
ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 12 }

ipReasmTimeout OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { ip 13 }

ipReasmReqds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 14 }

ipReasmOKs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 15 }

ipReasmFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 16 }

ipFragOKs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 17 }

ipFragFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 18 }

ipFragCreates

OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ip 19 }

-- the IP Interface table

ipAddrTable OBJECT-TYPE

SYNTAX SEQUENCE OF IpAddrEntry

ACCESS read-only

STATUS mandatory

::= { ip 20 }

ipAddrEntry OBJECT-TYPE

SYNTAX IpAddrEntry

ACCESS read-only

STATUS mandatory

::= { ipAddrTable 1 }

IpAddrEntry ::= SEQUENCE {

ipAdEntAddr

IpAddress,

ipAdEntIfIndex

INTEGER,

ipAdEntNetMask

IpAddress,

ipAdEntBcastAddr

INTEGER,

ipAdEntReasmMaxSize

INTEGER (0..65535)

}

ipAdEntAddr OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

::= { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE

SYNTAX INTEGER

```

ACCESS read-only
STATUS mandatory
::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    ::= { ipAddrEntry 5 }

-- the IP Routing table

ipRoutingTable OBJECT-TYPE
    SYNTAX SEQUENCE OF IpRouteEntry
    ACCESS read-write
    STATUS mandatory
    ::= { ip 21 }

ipRouteEntry OBJECT-TYPE
    SYNTAX IpRouteEntry
    ACCESS read-write
    STATUS mandatory
    ::= { ipRoutingTable 1 }

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

```

ipRouteDest OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

```

invalid(2), -- an invalidated route

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

-- route to a non-local
remote(4) -- host/network/
-- sub-network
}
ACCESS read-write
STATUS mandatory
::= { ipRouteEntry 8 }

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

-- non-protocol
-- information

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

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

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

-- the following are
-- gateway routing
-- protocols
egp(5),
ggp(6),
hello(7),
rip(8),
is-is(9),
es-is(10),
ciscoIgrp(11),
bbnSpfIgp(12),
ospf(13),
bgp(14)
}
ACCESS read-only
STATUS mandatory
::= { ipRouteEntry 9 }

```

ipRouteAge OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 11 }

-- the IP Address Translation tables

ipNetToMediaTable

OBJECT-TYPE

SYNTAX SEQUENCE OF IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE

SYNTAX IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {

ipNetToMediaIfIndex

INTEGER,

ipNetToMediaPhysAddress

OCTET STRING,

ipNetToMediaNetAddress

IpAddress,

ipNetToMediaType

INTEGER

}

ipNetToMediaIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-write

STATUS mandatory
::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IPAddress
ACCESS read-write
STATUS mandatory
::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

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

 invalid(2), -- an invalidated mapping
 dynamic(3), -- connected (sub-)network

 static(4)
}
ACCESS read-write
STATUS mandatory
::= { ipNetToMediaEntry 4 }

-- the ICMP group

icmpInMsgs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 1 }

icmpInErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 5 }

icmpInSrcQuenchs

OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 6 }

icmpInRedirects OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 7 }

icmpInEchos OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory

::= { icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 14 }

icmpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory
::= { icmp 20 }

icmpOutEchos OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 24 }

icmpOutAddrMasks OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 26 }

-- the TCP group

tcpRtoAlgorithm OBJECT-TYPE

SYNTAX INTEGER {
 other(1), -- none of the following
 constant(2), -- a constant rto
 rsre(3), -- MIL-STD-1778,
 -- Appendix B

```

vanj(4)    -- Van Jacobson's
           -- algorithm
    }
ACCESS read-only
STATUS mandatory
::= { tcp 1 }

tcpRtoMin OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 2 }

tcpRtoMax OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 3 }

tcpMaxConn OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 7 }

tcpEstabResets OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only

```

STATUS mandatory
::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE
SYNTAX Gauge
ACCESS read-only
STATUS mandatory
::= { tcp 9 }

tcpInSegs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 10 }

tcpOutSegs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 12 }

-- the TCP connections table

tcpConnTable OBJECT-TYPE
SYNTAX SEQUENCE OF TcpConnEntry
ACCESS read-only
STATUS mandatory
::= { tcp 13 }

tcpConnEntry OBJECT-TYPE
SYNTAX TcpConnEntry
ACCESS read-only
STATUS mandatory
::= { tcpConnTable 1 }

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

```
tcpConnRemAddress
  IPAddress,
tcpConnRemPort
  INTEGER (0..65535)
}
```

tcpConnState OBJECT-TYPE

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

ACCESS read-only

STATUS mandatory

::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE

```
SYNTAX IPAddress
```

ACCESS read-only

STATUS mandatory

::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE

```
SYNTAX INTEGER (0..65535)
```

ACCESS read-only

STATUS mandatory

::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE

```
SYNTAX IPAddress
```

ACCESS read-only

STATUS mandatory

::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE

```
SYNTAX INTEGER (0..65535)
```

ACCESS read-only

STATUS mandatory

::= { tcpConnEntry 5 }

-- additional TCP variables

tcpInErrs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 14 }

tcpOutRsts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 15 }

-- the UDP group

udpInDatagrams OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { udp 1 }

udpNoPorts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { udp 2 }

udpInErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { udp 3 }

udpOutDatagrams OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { udp 4 }

-- the UDP listener table

udpTable

OBJECT-TYPE

SYNTAX SEQUENCE OF UdpEntry
ACCESS read-only
STATUS mandatory

::= { udp 5 }

udpEntry OBJECT-TYPE

SYNTAX UdpEntry

ACCESS read-only

STATUS mandatory

::= { udpTable 1 }

UdpEntry ::= SEQUENCE {

udpLocalAddress

IpAddress,

udpLocalPort

INTEGER (0..65535)

}

udpLocalAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

::= { udpEntry 2 }

-- the EGP group

egpInMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 1 }

egpInErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 2 }

egpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 3 }

egpOutErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { egp 4 }

-- the EGP Neighbor table

egpNeighTable OBJECT-TYPE

SYNTAX SEQUENCE OF EgpNeighEntry
ACCESS read-only
STATUS mandatory
::= { egp 5 }

egpNeighEntry OBJECT-TYPE

SYNTAX EgpNeighEntry
ACCESS read-only
STATUS mandatory
::= { egpNeighTable 1 }

EgpNeighEntry ::= SEQUENCE {

egpNeighState
INTEGER,
egpNeighAddr
IpAddress,
egpNeighAs
INTEGER,
egpNeighInMsgs
Counter,
egpNeighInErrs
Counter,
egpNeighOutMsgs
Counter,
egpNeighOutErrs
Counter,
egpNeighInErrMsgs
Counter,
egpNeighOutErrMsgs
Counter,
egpNeighStateUps
Counter,
egpNeighStateDowns
Counter,
egpNeighIntervalHello
INTEGER,
egpNeighIntervalPoll
INTEGER,
egpNeighMode

```
    INTEGER,  
    egpNeighEventTrigger  
    INTEGER  
}
```

egpNeighState OBJECT-TYPE

```
    SYNTAX INTEGER {  
        idle(1),  
        acquisition(2),  
        down(3),  
        up(4),  
        cease(5)  
    }
```

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE

```
    SYNTAX IpAddress
```

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE

```
    SYNTAX INTEGER
```

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE

```
    SYNTAX Counter
```

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE

```
    SYNTAX Counter
```

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE

```
    SYNTAX Counter
```

ACCESS read-only

STATUS

mandatory

::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE

SYNTAX INTEGER {

active(1),

passive(2)

}

```

ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
    SYNTAX INTEGER {
        start(1),
        stop(2)
    }
    ACCESS read-write
    STATUS mandatory
    ::= { egpNeighEntry 15 }

-- additional EGP variables

egpAs OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { egp 6 }

-- the Transmission group (empty at present)

-- the SNMP group

snmpInPkts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { snmp 1 }

snmpOutPkts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE
    SYNTAX Counter
    ACCESS
read-only
STATUS mandatory
::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only

```

STATUS mandatory
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 6 }

snmpInBadTypes OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 7 }

snmpInTooBigs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only

STATUS mandatory
::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 18 }

snmpInTraps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only

STATUS mandatory
::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 22 }

snmpOutReadOnlys OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 23 }

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only
STATUS mandatory
::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter


```
ACCESS read-only
STATUS mandatory
::= { snmp 28 }
```

snmpOutTraps OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 29 }
```

snmpEnableAuthTraps OBJECT-TYPE

```
SYNTAX INTEGER {
    enabled(1),
    disabled(2)
}
ACCESS read-write
STATUS mandatory
::= { snmp 30 }
```

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-MIB

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

DLSW-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
    DisplayString, RowStatus,
    RowPointer, TruthValue,
    TEXTUAL-CONVENTION          FROM SNMPv2-TC
    Counter32, Gauge32, TimeTicks,
    OBJECT-TYPE, MODULE-IDENTITY,
    NOTIFICATION-TYPE, mib-2     FROM SNMPv2-SMI
    MODULE-COMPLIANCE, OBJECT-GROUP,
    NOTIFICATION-GROUP          FROM SNMPv2-CONF
    ifIndex                     FROM IF-MIB
    sdlcLSAddress               FROM SNA-SDLC-MIB;
```

dlsW MODULE-IDENTITY

```
LAST-UPDATED "9606040900Z"
ORGANIZATION "AIW DLSw MIB RIGLET and IETF DLSw MIB Working Group"
CONTACT-INFO
    "David D. Chen
     IBM Corporation
     800 Park, Highway 54
     Research Triangle Park, NC 27709-9990
     Tel:  1 919 254 6182
```

E-mail: dchen@vnet.ibm.com"

DESCRIPTION

"This MIB module contains objects to manage Data Link
Switches."

::= { mib-2 46 }

dlswMIB OBJECT IDENTIFIER ::= { dlsw 1 }

dlswDomains OBJECT IDENTIFIER ::= { dlsw 2 }

-- *****

-- Textual convention definitions

-- *****

NBName ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Represents a single qualified NetBIOS name, which can include
'don't care' and 'wildcard' characters to represent a number
of real NetBIOS names. If an individual character position in
the qualified name contains a '?', the corresponding character
position in a real NetBIOS name is a 'don't care'. If the
qualified name ends in '*', the remainder of a real NetBIOS
name is a 'don't care'. '*' is only considered a wildcard if it
appears at the end of a name."

SYNTAX OCTET STRING (SIZE
(0..16))

MacAddressNC ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1x:"

STATUS current

DESCRIPTION

"Represents an 802 MAC address represented in
non-canonical format. That is, the most significant
bit will be transmitted first. If this information
is not available, the value is a zero length string."

SYNTAX OCTET STRING (SIZE (0 | 6))

TAddress ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Denotes a transport service address.
For dlswTCPDomain, a TAddress is 4 octets long,
containing the IP-address in network-byte order."

SYNTAX OCTET STRING (SIZE (0..255))

EndStationLocation ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the location of an end station related to the managed DLSw node."

SYNTAX INTEGER {

other (1),
internal (2), -- local virtual MAC address
remote (3), -- via

DLSw partner

local (4) -- locally attached
}

DlcType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the type of DLC of an end station, if applicable."

SYNTAX INTEGER {

other (1), -- not assigned yet
na (2), -- not applicable
llc (3), -- 802.2 Logical Link Control
sdlc (4), -- SDLC
qllc (5) -- QLLC

}

LFSsize ::= 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 }
dlsWSdmc 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 dlswnode is in the active state, the time the dlswnode entered the active state. It will remain zero if dlswnode 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,
dlswTConnConfigInitCirRecvWdw 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 }

dlswTConnConfigInitCirRecvWdw 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 '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 }

dlswTConnOperPartnerInitPacingWdw 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 dlswTConnOperEntrys in the `disconnected' state, this value should remain unchanged."
::= { dlswTConnOperEntry 13 }

dlswTConnOperPartnerNBExcl OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of true signifies that the NetBIOS names received from this partner in the NetBIOS name list in its capabilities exchange message are the only NetBIOS names reachable by that partner. `False' indicates that other NetBIOS names may be reachable. `False' should be returned before a Capabilities Exchange message is received, if one is never received, or if one is received without a NB Name Exclusivity CV.

If an implementation chooses to keep dlswTConnOperEntrys in the `disconnected' state, this value should remain unchanged."
::= { dlswTConnOperEntry 14 }

dlswTConnOperPartnerMacExcl OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of true signifies that the MAC addresses received from this partner in the MAC address list in its capabilities exchange message are the only MAC addresses reachable by that partner. `False' indicates that other MAC addresses may be reachable. `False' should be returned before a Capabilities Exchange message is received, if one is never received, or if one is received without a MAC Address Exclusivity CV.

If an implementation chooses to keep dlswTConnOperEntrys in the `disconnected' state, this value should remain unchanged."
::= { dlswTConnOperEntry 15 }

dlswTConnOperPartnerNBInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept
partial (2), -- partial list is kept

complete (3), -- complete list is kept
notApplicable (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"It is up to this DSLw whether to keep either none, some,
or all of the NetBIOS name list that was received in
the capabilities exchange message sent by this partner DLSw.

This object identifies how much information was kept by
this DLSw. These names are stored as userConfigured
remote entries in dlswDirNBTable.

A value of (4), notApplicable, should be returned before
a Capabilities Exchange message is received, or if one is
never received.

If an implementation chooses to keep dlswTConnOperEntrys in
the 'disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 16 }

dlswTConnOperPartnerMacInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept
partial (2), -- partial list is kept
complete (3), -- complete list is kept
notApplicable (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"It is up to this DLSw whether to keep either none, some,
or all of the MAC address list that was received in the
capabilities exchange message sent by this partner DLSw.

This object identifies how much information was kept by
this DLSw. These names are stored as userConfigured
remote entries in dlswDirMACTable.

A value of (4), notApplicable, should be returned before
a Capabilities Exchange message is received, or if one is
never received.

If an implementation chooses to keep dlswTConnOperEntrys in
the 'disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 17 }

--

-- Information about the last disconnect of this transport connection.

```

-- These objects
make sense only for implementations that keep
-- transport connection information around after disconnection.
-- .....
dlsWTConnOperDiscTime OBJECT-TYPE
    SYNTAX    TimeTicks
    UNITS      "hundredths of a second"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The amount of time (in hundredths of a second) since the
         dlsWTConnOperState last entered `disconnected' state."
    ::= { dlsWTConnOperEntry 18 }

dlsWTConnOperDiscReason OBJECT-TYPE
    SYNTAX     INTEGER {
        other          (1),
        capExFailed    (2),
        transportLayerDisc (3),
        operatorCommand (4),
        lastCircuitDiscd (5),
        protocolError   (6)
    }
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "This object signifies the reason that either prevented the
         transport connection from entering the connected state, or
         caused the transport
connection to enter the disconnected
         state."
    ::= { dlsWTConnOperEntry 19 }

dlsWTConnOperDiscActiveCir OBJECT-TYPE
    SYNTAX     INTEGER (0..2147483647)
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The number of circuits active (not in DISCONNECTED state)
         at the time the transport connection was last disconnected.
         This value is zero if the transport connection has never
         been connected."
    ::= { dlsWTConnOperEntry 20 }

-- .....
-- Transport Connection Statistics
-- (1) Traffic counts
-- .....

```


dlsWTConnOperInDataPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this transport connection."

::= { dlsWTConnOperEntry 21 }

dlsWTConnOperOutDataPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this transport connection."

::= { dlsWTConnOperEntry 22 }

dlsWTConnOperInDataOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number octets in Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this transport connection. Each message is counted starting with the first octet following the SSP message header."

::= { dlsWTConnOperEntry 23 }

dlsWTConnOperOutDataOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number octets in Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this transport connection. Each message is counted starting with the first octet following the SSP message header."

::= { dlsWTConnOperEntry 24 }

dlsWTConnOperInCntlPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages received on this transport connection which were not of type DGRMFRAME, DATAFRAME, or INFOFRAME."

::= { dlswTConnOperEntry 25 }

dlswTConnOperOutCntlPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of transmitted on this transport connection which were not of type DGRMFRAME, DATAFRAME,

or INFOFRAME."

::= { dlswTConnOperEntry 26 }

--

-- (2) Directory activities (Explorer messages)

--

dlswTConnOperCURExSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of CanUReach_ex messages sent on this transport connection."

::= { dlswTConnOperEntry 27 }

dlswTConnOperICRexRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of ICanReach_ex messages received on this transport connection."

::= { dlswTConnOperEntry 28 }

dlswTConnOperCURExRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of CanUReach_ex messages received on this transport connection."
 ::= { dlsWTConnOperEntry 29 }

dlsWTConnOperICRexSents

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of ICanReach_ex messages sent on this transport connection."

::= { dlsWTConnOperEntry 30 }

--

dlsWTConnOperNQexSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of NetBIOS_NQ_ex (NetBIOS Name Query-explorer) messages sent on this transport connection."

::= { dlsWTConnOperEntry 31 }

dlsWTConnOperNRexRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of NETBIOS_NR_ex (NetBIOS Name Recognized-explorer) messages received on this transport connection."

::= { dlsWTConnOperEntry 32 }

dlsWTConnOperNQexRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of NETBIOS_NQ_ex messages received on this transport connection."

::= { dlsWTConnOperEntry 33 }

dlsWTConnOperNRexSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

```

    "The number of NETBIOS_NR_ex messages sent on this transport
    connection."
    ::= { dlswTConnOperEntry 34 }

-- .....
-- (3) Circuit activities on each transport connection
-- .....
dlswTConnOperCirCreates OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of times that circuits entered `circuit_established'
        state (not counting transitions from `circuit_restart')."
    ::= { dlswTConnOperEntry 35 }

dlswTConnOperCircuits OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of currently active circuits on this transport
        connection, where `active' means not in `disconnected' state."
    ::= { dlswTConnOperEntry 36 }

-----
-- Transport Connection Specific
-----

dlswTConnSpecific OBJECT IDENTIFIER ::= { dlswTConn 4 }
dlswTConnTcp OBJECT IDENTIFIER ::= { dlswTConnSpecific 1 }

-- .....
-- TCP Transport Connection Specific - Configuration
-- .....
dlswTConnTcpConfigTable OBJECT-TYPE
    SYNTAX SEQUENCE OF DlswTConnTcpConfigEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table defines the TCP transport connections that
        will be either initiated by or accepted by this DSLw.
        It augments the entries in dlswTConnConfigTable
        whose domain
        is dlswTCPDomain."
    ::= { dlswTConnTcp 1 }

dlswTConnTcpConfigEntry OBJECT-TYPE

```

SYNTAX DlswTConnTcpConfigEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Each conceptual row defines parameters that are
 specific to dlswTCPDomain transport connections."
 INDEX { dlswTConnConfigIndex }
 ::= { dlswTConnTcpConfigTable 1 }

DlswTConnTcpConfigEntry ::= SEQUENCE {
 dlswTConnTcpConfigKeepAliveInt INTEGER,
 dlswTConnTcpConfigTcpConnections INTEGER,
 dlswTConnTcpConfigMaxSegmentSize INTEGER
 }

dlswTConnTcpConfigKeepAliveInt OBJECT-TYPE
 SYNTAX INTEGER (0..1800)
 UNITS "seconds"
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The time in seconds between TCP keepAlive messages when
 no traffic is flowing. Zero signifies no keepAlive protocol.
 Changes take effect only for new TCP connections."
 DEFVAL { 0 }
 ::= { dlswTConnTcpConfigEntry
 1 }

dlswTConnTcpConfigTcpConnections OBJECT-TYPE
 SYNTAX INTEGER (1..16)
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This is our preferred number of TCP connections within a
 TCP transport connection. The actual number used is negotiated
 at capabilities exchange time. Changes take effect only
 for new transport connections."
 DEFVAL { 2 }
 ::= { dlswTConnTcpConfigEntry 2 }

dlswTConnTcpConfigMaxSegmentSize OBJECT-TYPE
 SYNTAX INTEGER (0..65535)
 UNITS "packets"
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This is the number of bytes that this node is
 willing to receive over the read TCP connection(s)."

```

    Changes take effect for new transport connections."
DEFVAL { 4096 }
::= { dlswTConnTcpConfigEntry 3 }

-- .....
-- TCP Transport Connection Specific - Operation
-- .....

dlswTConnTcpOperTable
OBJECT-TYPE
SYNTAX SEQUENCE OF DlswTConnTcpOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A list of TCP transport connections. It is optional
    but desirable for the agent to keep an entry for some
    period of time after the transport connection is
    disconnected. This allows the manager to capture
    additional useful information about the connection, in
    particular, statistical information and the cause of the
    disconnection."
::= { dlswTConnTcp 2 }

dlswTConnTcpOperEntry OBJECT-TYPE
SYNTAX DlswTConnTcpOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    ""

INDEX { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }
::= { dlswTConnTcpOperTable 1 }

DlswTConnTcpOperEntry ::= SEQUENCE {
    dlswTConnTcpOperKeepAliveInt    INTEGER,
    dlswTConnTcpOperPrefTcpConnections
        INTEGER,
    dlswTConnTcpOperTcpConnections    INTEGER
}

dlswTConnTcpOperKeepAliveInt OBJECT-TYPE
SYNTAX INTEGER (0..1800)
UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The time in seconds between TCP keepAlive messages when
    no traffic is flowing. Zero signifies no keepAlive protocol is
    operating."

```

```

::= { dlswTConnTcpOperEntry 1 }

dlswTConnTcpOperPrefTcpConnections OBJECT-TYPE
    SYNTAX    INTEGER (1..16)
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "This is the number of TCP connections preferred by this DLSw
        partner, as received in its capabilities exchange message."
    ::= { dlswTConnTcpOperEntry 2 }


dlswTConnTcpOperTcpConnections OBJECT-TYPE
    SYNTAX    INTEGER (1..16)
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "This is the actual current number of TCP connections within
        this transport connection."
    ::= { dlswTConnTcpOperEntry 3 }


-- *****
-- DLSW INTERFACE GROUP
-- *****


dlswIfTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF DlswIfEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "The list of interfaces on which DLSw is active."
    ::= { dlswInterface 1 }


dlswIfEntry OBJECT-TYPE
    SYNTAX    DlswIfEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        ""
    INDEX     { ifIndex }
    ::= { dlswIfTable 1 }


DlswIfEntry ::= SEQUENCE {
    dlswIfRowStatus    RowStatus,
    dlswIfVirtualSegment INTEGER,
    dlswIfSapList      OCTET STRING
}

```

dlswIfRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by the manager to create or delete the row entry in the dlswIfTable following the

RowStatus textual convention."

::= { dlswIfEntry 1 }

dlswIfVirtualSegment OBJECT-TYPE

SYNTAX INTEGER (0..4095 | 65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The segment number that uniquely identifies the virtual segment to which this DLSw interface is connected. Current source routing protocols limit this value to the range 0 - 4095. (The value 0 is used by some management applications for special test cases.) A value of 65535 signifies that no virtual segment is assigned to this interface. For instance, in a non-source routing environment, segment number assignment is not required."

DEFVAL { 65535 }

::= { dlswIfEntry 2 }

dlswIfSapList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(16))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP list indicates which SAPs are allowed to be data link switched through this interface.

This list

has the same format described for dlswTConnConfigSapList.

When changes to this object take effect is implementation-specific. Turning off a particular SAP can destroy active circuits that are using that SAP. An agent implementation may reject such changes until there are no active circuits if it so chooses. In this case, it is up to the manager to close the circuits first, using dlswCircuitState.

The DEFVAL below indicates support for SAPs 0, 4, 8, and C."

DEFVAL { 'AA0000000000000000000000000000'H }


```

::= { dlsWIfEntry 3 }

-- *****
-- DIRECTORY
-- Directory services caches the locations of MAC addresses
-- and NetBIOS names. For resources which are attached via
-- local interfaces, the ifIndex may be cached, and for
-- resources which are reachable via a DLSw partner, the
-- transport address of the DLSw partner is cached.
--
-- *****

-----
-- Directory Related Statistical Objects
-----

dlsWDirStat  OBJECT IDENTIFIER ::= { dlsWDirectory 1 }

dlsWDirMacEntries  OBJECT-TYPE
    SYNTAX      Gauge32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current total number of entries in the dlsWDirMacTable."
    ::= { dlsWDirStat 1 }

dlsWDirMacCacheHits  OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times a cache search for a particular MAC address
        resulted in success."
    ::= { dlsWDirStat 2 }

dlsWDirMacCacheMisses  OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of times a cache search for a particular MAC address
        resulted in failure."
    ::= { dlsWDirStat 3 }

dlsWDirMacCacheNextIndex  OBJECT-TYPE
    SYNTAX      INTEGER (0..2147483647)
    MAX-ACCESS  read-only
    STATUS      current

```

DESCRIPTION

"The next value of dlswDirMacIndex to be assigned by the agent. A retrieval of this object atomically reserves the returned value for use by the manager to create a row in dlswDirMacTable. This makes it possible for the agent to control the index space of the MAC address cache, yet allows the manager to administratively create new rows."

::= { dlswDirStat 4 }

dlswDirNBEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { dlswDirStat 5 }

dlswDirNBCacheHits OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular NetBIOS name resulted in success."

::= { dlswDirStat 6 }

dlswDirNBCacheMisses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular NetBIOS name resulted in failure."

::= { dlswDirStat 7 }

dlswDirNBCacheNextIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The next value of dlswDirNBIndex to be assigned by the agent. A retrieval of this object atomically reserves the returned value for use by the manager to create a row in dlswDirNBTable. This makes it possible for the agent to control the index space for the NetBIOS name cache, yet allows the manager to administratively create new rows."

```

 ::= { dlswDirStat 8 }

-----
-- Directory Cache
-----

dlswDirCache
  OBJECT IDENTIFIER ::= { dlswDirectory 2 }

-- .....
-- Directory for MAC Addresses.
-- All Possible combinations of values of these objects.
--
--   EntryType  LocationType  Location      Status
--   -----
--   userConfigured  local    ifEntry or 0.0  reachable, or
--                                     notReachable, or
--                                     unknown
--   userConfigured  remote   TConnConfigEntry reachable, or
--                                     notReachable, or
--                                     unknown
--   partnerCapExMsg remote   TConnOperEntry  unknown
--   dynamic          local    ifEntry or 0.0  reachable
--   dynamic          remote   TConnOperEntry  reachable
--
-- .....
dlswDirMacTable
  OBJECT-TYPE
  SYNTAX      SEQUENCE OF DlswDirMacEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains locations of MAC addresses.
     They could be either verified or not verified,
     local or remote, and configured locally or learned
     from either Capabilities Exchange messages or
     directory searches."
  ::= { dlswDirCache 1 }

dlswDirMacEntry OBJECT-TYPE
  SYNTAX      DlswDirMacEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Indexed by dlswDirMacIndex."
  INDEX       { dlswDirMacIndex }
  ::= { dlswDirMacTable 1 }

DlswDirMacEntry ::= SEQUENCE {

```

```

dlswDirMacIndex      INTEGER,
dlswDirMacMac        MacAddressNC,
dlswDirMacMask       MacAddressNC,
dlswDirMacEntryType  INTEGER,
dlswDirMacLocationType INTEGER,
dlswDirMacLocation   RowPointer,
dlswDirMacStatus     INTEGER,
dlswDirMacLFSize     LFSize,
dlswDirMacRowStatus  RowStatus
}

```

dlswDirMacIndex OBJECT-TYPE
 SYNTAX INTEGER (0..2147483647)
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Uniquely identifies a conceptual row of this table."
 ::= { dlswDirMacEntry 1 }

dlswDirMacMac OBJECT-TYPE
 SYNTAX MacAddressNC
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The MAC address, together with the dlswDirMacMask,
 specifies a set of MAC addresses that are defined or
 discovered through an interface or partner DLSw nodes."
 ::= { dlswDirMacEntry 2 }

dlswDirMacMask OBJECT-TYPE
 SYNTAX MacAddressNC
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The MAC address mask, together with the dlswDirMacMac,
 specifies a set of MAC addresses that are defined or
 discovered through an interface or partner DLSw nodes."
 DEFVAL { 'FFFFFFFFFFFF'H }
 ::= { dlswDirMacEntry 3 }

dlswDirMacEntryType
 OBJECT-TYPE
 SYNTAX INTEGER {
 other (1),
 userConfiguredPublic (2),
 userConfiguredPrivate (3),
 partnerCapExMsg (4),

dynamic (5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The cause of the creation of this conceptual row.

It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line or equivalent methods; (2) learned from the partner DLSw Capabilities Exchange messages; and (3) dynamic, e.g., learned from ICanReach messages, or LAN explorer frames. Since only individual MAC addresses can be dynamically learned, dynamic entries will all have a mask of all FFs.

The public versus private distinction for user-configured resources applies only to local resources (UC remote

resources are private), and indicates

whether that resource should be advertised in capabilities exchange messages sent by this node."

DEFVAL { userConfiguredPublic }

::= { dlswDirMacEntry 4 }

dlswDirMacLocationType OBJECT-TYPE

SYNTAX INTEGER {

other (1),

local (2),

remote (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The location of the resource (or a collection of resources using a mask) of this conceptual row is either (1) local - the resource is reachable via an interface, or (2) remote - the resource is reachable via a partner DLSw node (or a set of partner DLSw nodes)."

DEFVAL { local }

::= { dlswDirMacEntry 5 }

dlswDirMacLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to either the ifEntry, dlswTConnConfigEntry,
dlswTConnOperEntry, 0.0, or something that is implementation
specific. It identifies the location of the MAC address
(or the collection of MAC addresses.)"

DEFVAL { null }

::= { dlswDirMacEntry 6 }

dlswDirMacStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown (1),

reachable (2),

notReachable (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object specifies whether DLSw currently believes
the MAC address to be accessible at the specified location.

The value 'notReachable' allows a configured resource
definition to be taken out of service when a search to
that resource fails (avoiding a repeat of the search)."

DEFVAL { unknown }

::= { dlswDirMacEntry 7 }

dlswDirMacLFSize OBJECT-TYPE

SYNTAX LFSize

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The largest size of the MAC

INFO field (LLC header and data)

that a circuit to the MAC address can carry through this path."

DEFVAL { lfs65535 }

::= { dlswDirMacEntry 8 }

dlswDirMacRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by the manager to create
or delete the row entry in the dlswDirMacTable
following the RowStatus textual convention."

::= { dlswDirMacEntry 9 }

--

-- Directory for NetBIOS Names

-- All Possible combinations of values of these objects.

```

--
-- EntryType LocationType Location Status
-- -----
-- userConfigured local ifEntry or 0.0 reachable, or
-- notReachable, or
-- unknown
-- userConfigured remote TConnConfigEntry
-- reachable, or
-- notReachable, or
-- unknown
-- partnerCapExMsg remote TConnOperEntry unknown
-- dynamic local ifEntry or 0.0 reachable
-- dynamic remote TConnOperEntry reachable
--
-- .....

```

dlswDirNBTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswDirNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains locations of NetBIOS names.

They could be either verified or not verified,

local or remote, and configured locally or learned

from either Capabilities Exchange messages or

directory searches."

::= { dlswDirCache 2 }

dlswDirNBEntry OBJECT-TYPE

SYNTAX DlswDirNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlswDirNBIndex."

INDEX {

dlswDirNBIndex }

::= { dlswDirNBTable 1 }

DlswDirNBEntry ::= SEQUENCE {

dlswDirNBIndex INTEGER,

dlswDirNBName NBName,

dlswDirNBNameType INTEGER,

dlswDirNBEntryType INTEGER,

dlswDirNBLocationType INTEGER,

dlswDirNBLocation RowPointer,

dlswDirNBStatus INTEGER,

dlswDirNBLFSize LFSize,

dlswDirNBRowStatus RowStatus

}

dlswDirNBIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Uniquely identifies a conceptual row of this table."

::= { dlswDirNBEntry 1 }

dlswDirNBName OBJECT-TYPE

SYNTAX NBNName

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 }

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 }

::= { dlsDirNBEntry 7 }

dlsDirNBSize 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 }

::= { dlsDirNBEntry 8 }

dlsDirNBRowStatus 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 dlsDirNBTable following the RowStatus textual convention."

::= { dlsDirNBEntry 9 }

-- Resource Locations

dlsDirLocate

OBJECT IDENTIFIER ::= { dlsDirectory 3 }

--

-- Locate Entries in the dlsDirMacTable 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)."
::= { dlsDirLocateNBEntry 1 }

dlsDirLocateNBMatch OBJECT-TYPE
SYNTAX INTEGER (1..255)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The order of the entries of dlsDirNBTable
that match dlsDirLocateNBName. 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."
::= { dlsDirLocateNBEntry 2 }

dlsDirLocateNBLocation OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Points to the dlsDirNBEntry."
::= { dlsDirLocateNBEntry 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

dlsCircuitStat OBJECT IDENTIFIER ::= { dlsCircuit 1 }

dlsCircuitStatActives OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The current number of circuits in dlsuCircuitTable that are not in the disconnected state."
 ::= { dlsuCircuitStat 1 }

dlsuCircuitStatCreates OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of entries ever added to dlsuCircuitTable, or reactivated upon exiting 'disconnected' state."

::= { dlsuCircuitStat 2 }

-- Circuit Table

--

-- This table is the DLSw entity's view of circuits. There will be a conceptual row in the table associated with each data link.

--

-- The chart below lists the various possible combinations of origin and target MAC

locations and the number of entries in

-- this Circuit Table:

--

number of		Origin End Station Location		
entries in the		-----		
Circuit Table		internal	local	remote
-----		-----		
Target	internal	NA	2	1
End	local	2	2	1
Station	remote	1	1	NA
Location				

--

-- NA: Not applicable

--

-- Note:

-- (a) IfIndex and RouteInfo are applied only if location is local.

-- (b) TDomain and TAddr are applied only if location is remote.

--

-- Most of statistics related to circuits can be collected

-- from LLC-2 Link Station Table.

dlsuCircuitTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlsuCircuitEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"This table is the circuit representation in the DLSw entity. Virtual data links are used to represent any internal end stations. There is a conceptual row associated with each data link. Thus, for circuits without an intervening transport connection, there are two conceptual rows for each circuit.

The table consists of the circuits being established, established, and as an implementation option, circuits that have been disconnected. For circuits carried over transport connections, an entry is created after the CUR_cs was sent or received. For circuits between two locally attached devices, or internal virtual MAC addresses, an entry is created when the equivalent of CUR_cs sent/received status is reached.

End station 1 (S1) and End station 2 (S2) are used to represent the two end stations of the circuit.

S1 is always

an end station which is locally attached.

S2 may be locally attached or remote. If it is locally attached, the circuit will be represented by two rows indexed by (A, B) and (B, A) where A & B are the relevant MACs/SAPs.

The table may be used to store the causes of disconnection of circuits. It is recommended that the oldest disconnected circuit entry be removed from this table when the memory space of disconnected circuits is needed."

::= { dlswCircuit 2 }

dlswCircuitEntry OBJECT-TYPE

SYNTAX DlswCircuitEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { dlswCircuitS1Mac,
dlswCircuitS1Sap,
dlswCircuitS2Mac,
dlswCircuitS2Sap }

::= { dlswCircuitTable 1 }

DlswCircuitEntry ::= SEQUENCE {

dlswCircuitS1Mac MacAddressNC,
dlswCircuitS1Sap OCTET STRING,
dlswCircuitS1IfIndex INTEGER,

```

    dlswCircuitS1DlcType      DlcType,
    dlswCircuitS1RouteInfo    OCTET STRING,
    dlswCircuitS1CircuitId    OCTET STRING,
    dlswCircuitS1Dlc          RowPointer,

    dlswCircuitS2Mac          MacAddressNC,
    dlswCircuitS2Sap          OCTET STRING,
    dlswCircuitS2Location     EndStationLocation,
    dlswCircuitS2TDomain      OBJECT IDENTIFIER,
    dlswCircuitS2TAddress     TAddress,
    dlswCircuitS2CircuitId    OCTET STRING,

    dlswCircuitOrigin         INTEGER,

    dlswCircuitEntryTime      TimeTicks,
    dlswCircuitStateTime      TimeTicks,
    dlswCircuitState          INTEGER,

    dlswCircuitPriority        INTEGER,

    dlswCircuitFCSendGrantedUnits  INTEGER,
    dlswCircuitFCSendCurrentWndw   INTEGER,
    dlswCircuitFCRecvGrantedUnits  INTEGER,
    dlswCircuitFCRecvCurrentWndw   INTEGER,
    dlswCircuitFCLargestRecvGranted Gauge32,
    dlswCircuitFCLargestSendGranted Gauge32,
    dlswCircuitFCHalveWndwSents    Counter32,
    dlswCircuitFCResetOpSents      Counter32,
    dlswCircuitFCHalveWndwRcvds    Counter32,
    dlswCircuitFCResetOpRcvds      Counter32,
    dlswCircuitDiscReasonLocal     INTEGER,
    dlswCircuitDiscReasonRemote    INTEGER,
    dlswCircuitDiscReasonRemoteData OCTET STRING
}

-- .....
-- Information related to the End Station 1 (S1).
-- .....
dlswCircuitS1Mac OBJECT-TYPE
    SYNTAX      MacAddressNC
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The MAC Address of End Station 1 (S1) used for this circuit."
    ::= { dlswCircuitEntry 1 }

dlswCircuitS1Sap OBJECT-TYPE

```


SYNTAX OCTET STRING (SIZE(1))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The SAP at End Station 1 (S1) used for this circuit."
::= { 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."
::= { dlsuCircuitEntry 4 }

dlsuCircuitS1RouteInfo 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."
::= { dlsuCircuitEntry 5 }

dlsuCircuitS1CircuitId 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."
::= { dlsuCircuitEntry 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."
 ::= { 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."
 ::= { dlsuCircuitEntry 13 }

--
 dlsuCircuitOrigin
 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."
 ::= { dlsuCircuitEntry 14 }

--
 -- Operational information related to this circuit.
 --

dlsuCircuitEntryTime 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."
::= { dlsuCircuitEntry 15 }

dlsuCircuitStateTime 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."
::= { dlsuCircuitEntry 16 }

dlsuCircuitState OBJECT-TYPE

SYNTAX INTEGER {
disconnected (1),
circuitStart (2),
resolvePending (3),
circuitPending (4),
circuitEstablished (5),
connectPending (6),
contactPending (7),
connected (8),
disconnectPending (9),
haltPending (10),
haltPendingNoack (11),
circuitRestart (12),
restartPending (13)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The current state of this circuit. The agent, implementation
specific, may choose to keep entries for some period of time
after circuit disconnect, so the manager can gather the time
and cause of disconnection.

While all of the specified values may be returned from a GET
operation, the only SETable value is `disconnectPending'.
When this value is set, DLSw should perform the appropriate
action given its previous state (e.g., send HALT_DL if the
state was `connected') to bring the circuit down to the
`disconnected' state. Both the partner DLSw and local end

station(s) should be notified as appropriate.

This MIB provides no facility to re-establish a disconnected circuit, because in DLSw this should be an end station-driven function."

::= { dlswCircuitEntry 17 }

dlswCircuitPriority OBJECT-TYPE

SYNTAX INTEGER {

unsupported (1),

low (2),

medium (3),

high (4),

highest (5)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The transmission priority of this circuit as understood by this

DLSw node. This value is determined by the two DLSw nodes at circuit startup time. If this DLSw node does not support DLSw circuit priority, the value `unsupported' should be returned."

::= { dlswCircuitEntry 18 }

--

-- Pacing Objects:

-- These objects are applicable if DLSw is using the SSP circuit

-- pacing protocol to control the flow between the two data links

-- in this circuit.

--

dlswCircuitFCSendGrantedUnits OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of paced SSP messages that this DLSw is currently authorized to send on this circuit before it must stop and wait for an additional flow control indication from the partner DLSw.

The value zero should be returned if this circuit is not running

the DLSw pacing protocol."

::= { dlswCircuitEntry 19 }

dlswCircuitFCSendCurrentWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current window size that this DLSw is using in its role as a data sender. This is the value by which this DLSw would increase the number of messages it is authorized to send, if it were to receive a flow control indication with the bits specifying `repeat window`.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 20 }

dlswCircuitFCRecvGrantedUnits OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current number of paced SSP messages that this DLSw has authorized the partner DLSw to send on this circuit before the partner DLSw must stop and wait for an additional flow

control indication from this DLSw.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 21 }

dlswCircuitFCRecvCurrentWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current window size that this DLSw is using in its role as a data receiver. This is the number of additional paced SSP messages that this DLSw would be authorizing its DLSw partner to send, if this DLSw were to send a flow control indication with the bits specifying `repeat window`.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 22 }

dlswCircuitFCLargestRecvGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest receive window size granted by this DLSw during

the current activation of this circuit. This is not the
largest number of messages granted at any time, but the
largest window size as represented by FCIND operator bits.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."

::= { dlswCircuitEntry 23 }

dlswCircuitFCLargestSendGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest send (with respect to this DLSw) window size
granted by the partner DLSw during the current activation of
this circuit.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."

::= { dlswCircuitEntry 24 }

dlswCircuitFCHalveWndwSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Halve Window operations this DLSw has sent on
this circuit, in its role as a data
receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."

::= { dlswCircuitEntry 25 }

dlswCircuitFCResetOpSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has sent on
this circuit, in its role as a data receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."

::= { dlswCircuitEntry 26 }

dlswCircuitFCHalveWndwRcvds OBJECT-TYPE
 SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of Halve Window operations this DLSw has received on
 this circuit, in its role as a data sender.

 The value zero should be returned if this circuit is not
 running the DLSw pacing protocol."
 ::= { dlswCircuitEntry 27 }

dlswCircuitFCResetOpRcvds OBJECT-TYPE
 SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of Reset Window operations this DLSw has received on
 this circuit, in its role as a data sender.
 The value zero should be returned if this circuit is not
 running the DLSw pacing protocol."
 ::= { dlswCircuitEntry 28 }

--
 -- Information about the circuit disconnection
 --

dlswCircuitDiscReasonLocal OBJECT-TYPE
 SYNTAX INTEGER {
 endStationDiscRcvd (1),
 endStationDlcError (2),
 protocolError (3),
 operatorCommand (4),
 haltDIRcvd (5),
 haltDI_NoAckRcvd (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 }

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."

::= { dlsuCircuitEntry 31 }

--

-- Statistics related to this circuit.

-- All statistics are in LLC-2 Link Station Statistical Table.

-- All SDLC statistics are in SDLC MIB

--

--

-- DLSW SDLC EXTENSION

-- *****

dlsWsdLcLsEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of entries in dlsWsdLcLsTable."

::= { dlsWsdLc 1 }

--

dlsWsdLcLsTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlsWsdLcLsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table defines the virtual MAC addresses for those
SDLC link stations that participate in data link switching."

::= { dlsWsdLc 2 }

dlsWsdLcLsEntry OBJECT-TYPE

SYNTAX DlsWsdLcLsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index of this table is the ifIndex value for the
SDLC port which owns this link station and the poll
address of

the particular SDLC link station."

INDEX { ifIndex, sdLcLSAddress }

::= { dlsWsdLcLsTable 1 }

DlsWsdLcLsEntry ::= SEQUENCE {

dlsWsdLcLsLocalMac MacAddressNC,

dlsWsdLcLsLocalSap OCTET STRING,

dlsWsdLcLsLocalIdBlock DisplayString,

dlsWsdLcLsLocalIdNum DisplayString,

dlsWsdLcLsRemoteMac MacAddressNC,

dlsWsdLcLsRemoteSap OCTET STRING,

dlsWsdLcLsRowStatus RowStatus

}

dlsWsdLcLsLocalMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The virtual MAC address used to represent the SDLC-attached
link station to the rest of the DLSw network."

::= { dlsWsdLcLsEntry 1 }

dlsWsdLcLsLocalSap OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP used to represent this link station."

::= { dlsWsdLcLsEntry 2 }

dlsWsdLcLsLocalIdBlock OBJECT-TYPE

SYNTAX DisplayString (SIZE (0 | 3))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The block number is the first three digits of the node_id, if available. These 3 hexadecimal digits identify the product."

DEFVAL { "H" }

::= { dlsWsdLcLsEntry 3 }

dlsWsdLcLsLocalIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE (0 | 5))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The ID number is the last 5 digits of the node_id, if available. These 5 hexadecimal digits are administratively defined and combined with the 3 digit block number form the node_id. This node_id is used to identify the local node and is included in SNA XIDs."

DEFVAL { "H" }

::= { dlsWsdLcLsEntry 4 }

dlsWsdLcLsRemoteMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address to which DLSw should attempt to connect

this link station. If this information is not available, a length of zero for this object should be returned."

DEFVAL { "H" }

::= { dlsWsdLcLsEntry 5 }

dlsWsdLcLsRemoteSap OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 1))

MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The SAP of the remote station to which this link
 station should be connected. If this information
 is not available, a length of zero for this object
 should be returned."
 DEFVAL { "H" }
 ::= { dlsWsdLcLsEntry 6 }

dlsWsdLcLsRowStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object is used by the manager to create
 or delete the row entry in the dlsWsdLcLsTable
 following the RowStatus textual convention."
 ::= { dlsWsdLcLsEntry 7 }

-- *****

-- TRAP GENERATION CONTROL

--

dlsWTrapControl OBJECT IDENTIFIER ::= { dlsWNode 10 }

dlsWTrapCntlTConnPartnerReject OBJECT-TYPE

SYNTAX INTEGER {
 enabled (1),
 disabled (2),
 partial (3)
 }
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION
 "Indicates whether the DLSw is permitted to emit partner
 reject related traps. With the value of `enabled`
 the DLSw will emit all partner reject related traps.
 With the value of `disabled` the DLSw will not emit
 any partner reject related traps. With the value
 of `partial` the DLSw will only emits partner reject
 traps for CapEx reject. The changes take effect
 immediately."
 ::= { dlsWTrapControl 1 }

dlsWTrapCntlTConnProtViolation OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to generate protocol-violation traps on the events such as window size violation. The changes take effect immediately."

::= { dlswTrapControl 2 }

dlswTrapCntlTConn OBJECT-TYPE

SYNTAX INTEGER {

enabled (1),

disabled (2),

partial (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to emit transport connection up and down traps. With the value of `enabled` the DLSw will emit traps when connections enter `connected` and `disconnected` states. With the value of `disabled` the DLSw will not emit traps when connections enter of `connected` and `disconnected` states. With the value of `partial` the DLSw will only emits transport connection down traps when the connection is closed with busy. The changes take effect immediately."

::= { dlswTrapControl 3 }

dlswTrapCntlCircuit OBJECT-TYPE

SYNTAX INTEGER {

enabled (1),

disabled (2),

partial (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to generate circuit up and down traps. With the value of `enabled` the DLSw will emit traps when circuits enter `connected` and `disconnected` states. With the value of `disabled` the DLSw will not emit traps when circuits enter of `connected` and `disconnected` states. With the value of `partial` the DLSw will emit traps only for those circuits that are initiated by this DLSw, e.g., originating the CUR_CS message. The changes take effect immediately."

```

::= { dlsWTrapControl 4 }

-- *****
-- NOTIFICATIONS, i.e., TRAP DEFINITIONS
-- *****

dlsWTraps          OBJECT IDENTIFIER
::= { dlsWMIB 0 }

-----

-- This section defines the well-known notifications sent by
-- DLSW agents.
-- Care must be taken to insure that no particular notification
-- is sent to a single receiving entity more often than once
-- every five seconds.
--
-- Traps includes:
-- (1) Partner rejected (capEx rejection, not in partner list, etc.)
-- (2) DLSw protocol violation (e.g., window size violation, etc.)
-- (3) Transport connection up/down

-- (4) Circuit up/down
-----

--

dlsWTrapTConnPartnerReject NOTIFICATION-TYPE
  OBJECTS { dlsWTConnOperTDomain, dlsWTConnOperRemoteTAddr
  }
  STATUS    current
  DESCRIPTION
    "This trap is sent each time a transport connection
    is rejected by a partner DLSw during Capabilities
    Exchanges. The emission of this trap is controlled
    by dlsWTrapCntlTConnPartnerReject."
  ::= { dlsWTraps
  1 }

dlsWTrapTConnProtViolation NOTIFICATION-TYPE
  OBJECTS { dlsWTConnOperTDomain, dlsWTConnOperRemoteTAddr
  }
  STATUS    current
  DESCRIPTION
    "This trap is sent each time a protocol violation is
    detected for a transport connection. The emission of this
    trap is controlled by dlsWTrapCntlTConnProtViolation."
  ::= { dlsWTraps 2 }

dlsWTrapTConnUp NOTIFICATION-TYPE
  OBJECTS { dlsWTConnOperTDomain, dlsWTConnOperRemoteTAddr

```

```

}
STATUS    current
DESCRIPTION
    "This trap is sent each time a transport connection
    enters `connected' state. The emission of this trap
    is controlled by dlswTrapCntlTConn."
::= { dlswTraps 3 }

dlswTrapTConnDown NOTIFICATION-TYPE
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a transport connection
    enters `disconnected' state. The emission of this trap
    is controlled by dlswTrapCntlTConn."
::= { dlswTraps 4 }

dlswTrapCircuitUp NOTIFICATION-TYPE
OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
          dlswCircuitS2Mac, dlswCircuitS2Sap
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a circuit enters `connected'
    state. The emission of this trap is controlled by
    dlswTrapCntlCircuit."
::= { dlswTraps 5 }

dlswTrapCircuitDown NOTIFICATION-TYPE
OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
          dlswCircuitS2Mac, dlswCircuitS2Sap
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a circuit enters `disconnected'
    state. The emission of this trap is controlled by
    dlswTrapCntlCircuit."
::= { dlswTraps 6 }

-- *****
-- CONFORMANCE INFORMATION
-- *****

dlswConformance    OBJECT IDENTIFIER ::= { dlsw 3 }

dlswCompliances

```

```
OBJECT IDENTIFIER ::= { dlsWConformance 1 }
dlsWGroups      OBJECT IDENTIFIER ::= { dlsWConformance 2 }
```

```
-----
-- COMPLIANCE STATEMENTS
-----
```

```
-- .....
-- Core compliance for all DLSw entities
-- .....
dlsWCoreCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION
"The core compliance statement for all DLSw nodes."
```

```
MODULE
```

```
MANDATORY-GROUPS {
    dlsWNodeGroup,
    dlsWTConnStatGroup,
    dlsWTConnConfigGroup,
    dlsWTConnOperGroup,
    dlsWInterfaceGroup,
    dlsWCircuitGroup,
    dlsWCircuitStatGroup,
    dlsWNotificationGroup }

```

```
GROUP dlsWNodeNBGroup
DESCRIPTION
```

```
"The DLSw NetBIOS Node group is mandatory only for
those DLSw entities that implement NetBIOS."
```

```
GROUP dlsWTConnNBGroup
DESCRIPTION
```

```
"The DLSw NetBIOS Transport Connection group is
mandatory only for those DLSw entities that
implement NetBIOS."
```

```
OBJECT dlsWNodeStatus
MIN-ACCESS read-only
DESCRIPTION
```

```
"Write access is not required."
```

```
OBJECT dlsWNodeVirtualSegmentLFSize
MIN-ACCESS read-only
DESCRIPTION
```

```
"Write access is not required."
```

```
OBJECT dlsWNodeResourceNBExclusivity
```


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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

OBJECT dlswIfSapList

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

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

::= { dlswCompliances 1 }

--
-- Compliance for all DLSw entities that provide TCP transport.
--

dlswTConnTcpCompliance MODULE-COMPLIANCE

STATUS current
DESCRIPTION
"Compliance for DLSw nodes that use TCP as a
transport connection protocol."

MODULE

MANDATORY-GROUPS {
 dlswTConnTcpConfigGroup,
 dlswTConnTcpOperGroup }

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

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

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

::= { dlswCompliances 2 }

--
-- Compliance for all DLSw Entities that implement a directory
--

dlswDirCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that provide a directory function."

MODULE

MANDATORY-GROUPS {
 dlswDirGroup }

GROUP dlswDirNBGroup

DESCRIPTION

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

OBJECT dlswDirMacMac

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacEntryType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLocationType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLFSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBNameType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBEntryType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocationType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLFSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

::= { dlswCompliances 3 }

--

-- Compliance for all DLSw entities that provide an ordered

```

-- list of directory entries that match a resource
-- .....
dlswDirLocateCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that provide
an ordered
    list of directory entries for a given resource."
  MODULE
    MANDATORY-GROUPS {
      dlswDirLocateGroup }

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

  ::= { dlswCompliances 4 }

-- .....
-- Compliance for all DLSw entities that support SDLC end stations
-- .....
dlswSdlcCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that support SDLC."
  MODULE
    MANDATORY-GROUPS {
      dlswSdlcGroup }

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

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

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

  OBJECT dlswSdlcLsLocalIdNum
    MIN-ACCESS read-only
    DESCRIPTION

```

```

        "Write access is not required."

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

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

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

::= { dlsWCompliances 5 }

-----
-- CONFORMANCE GROUPS
-----

-- .....
--
Node Conformance Group
-- .....
dlsWNodeGroup OBJECT-GROUP
    OBJECTS {
        dlsWNodeVersion,
        dlsWNodeVendorID,
        dlsWNodeVersionString,
        dlsWNodeStdPacingSupport,
        dlsWNodeStatus,
        dlsWNodeUpTime,
        dlsWNodeVirtualSegmentLFSize,
        dlsWNodeResourceMacExclusivity,
        dlsWTrapCntlTConnPartnerReject,
        dlsWTrapCntlTConnProtViolation,
        dlsWTrapCntlTConn,
        dlsWTrapCntlCircuit
    }
    STATUS current
    DESCRIPTION
        "Conformance group for DLSw node general information."
::= { dlsWGroups 1 }

-- .....

```

```

dlswNodeNBGroup OBJECT-GROUP
OBJECTS {
    dlswNodeResourceNBExclusivity
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw node general information
    specifically for nodes that support NetBIOS."
::=
{ dlswGroups 2 }

```

```

-- .....
dlswTConnStatGroup OBJECT-GROUP
OBJECTS {
    dlswTConnStatActiveConnections,
    dlswTConnStatCloseIdles,
    dlswTConnStatCloseBusys
}
STATUS current
DESCRIPTION
    "Conformance group for statistics for transport
    connections."
::= { dlswGroups 3 }

```

```

-- .....
dlswTConnConfigGroup OBJECT-GROUP
OBJECTS {
    dlswTConnConfigTDomain,
    dlswTConnConfigLocalTAddr,
    dlswTConnConfigRemoteTAddr,
    dlswTConnConfigLastModifyTime,
    dlswTConnConfigEntryType,
    dlswTConnConfigGroupDefinition,
    dlswTConnConfigSetupType,
    dlswTConnConfigSapList,
    dlswTConnConfigAdvertiseMacNB,
    dlswTConnConfigInitCirRecvWdw,
    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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB

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

SIP-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,
OBJECT-TYPE,
NOTIFICATION-TYPE,
Counter32,
Gauge32,
TimeTicks,
Unsigned32,

mib-2

FROM SNMPv2-SMI -- RFC 2578

RowStatus,
TimeStamp,
TruthValue

FROM SNMPv2-TC -- RFC 2579

MODULE-COMPLIANCE,
OBJECT-GROUP,
NOTIFICATION-GROUP

FROM SNMPv2-CONF -- RFC 2580

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.

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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 SipTCEntityRole
}

sipCommonCfgProtocolVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object will reflect the version of SIP supported by this SIP entity. It will follow the same format as SIP version information contained in the SIP messages generated by this SIP entity. For example, entities supporting SIP version 2 will return 'SIP/2.0' as dictated by the standard."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonCfgEntry

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 $\text{MIN}(2 \cdot T1, T2)$
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 StpTCMethodName

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 StpTCMethodName
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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-COMMON-MIB

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

RMON2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Counter32, Integer32,
Gauge32, IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI
TEXTUAL-CONVENTION, RowStatus, DisplayString, TimeStamp
FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
ifIndex FROM IF-MIB
OwnerString, statistics, history, hosts,
matrix, filter, etherStatsEntry, historyControlEntry,
hostControlEntry, matrixControlEntry, filterEntry,
channelEntry FROM RMON-MIB
tokenRing, tokenRingMLStatsEntry, tokenRingPStatsEntry,

ringStationControlEntry, sourceRoutingStatsEntry
FROM TOKEN-RING-RMON-MIB;

-- Remote Network Monitoring MIB

rmon MODULE-IDENTITY

LAST-UPDATED "200605020000Z" -- May 2, 2006

ORGANIZATION "IETF RMON

MIB Working Group"

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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 HlHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlHostControlTable.

An example of the indexing of this entry is

hlHostControlNlDroppedFrames.1"

INDEX { hlHostControlIndex }

::= { hlHostControlTable 1 }

```
hlHostControlEntry ::= SEQUENCE {  
    hlHostControlIndex      Integer32,  
    hlHostControlDataSource  
        DataSource,  
    hlHostControlNlDroppedFrames Counter32,  
    hlHostControlNlInserts      Counter32,  
    hlHostControlNlDeletes      Counter32,  
    hlHostControlNlMaxDesiredEntries Integer32,  
    hlHostControlAlDroppedFrames Counter32,  
    hlHostControlAlInserts      Counter32,  
    hlHostControlAlDeletes      Counter32,  
    hlHostControlAlMaxDesiredEntries Integer32,  
    hlHostControlOwner          OwnerString,  
    hlHostControlStatus          RowStatus  
}
```

hlHostControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the hlHostControlTable. Each such entry defines a function that discovers hosts on a particular interface and places statistics about them in the nlHostTable, and optionally in the alHostTable, on behalf of this hlHostControlEntry."

::= { hlHostControlEntry 1 }

hlHostControlDataSource

OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for the associated host tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated hlHostControlStatus object is equal to active(1)."
::= { hlHostControlEntry 2 }

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
hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 4 }

hlHostControlNlDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlHost entry has been

deleted from the nlHost table (for any reason). If an entry
is deleted, then inserted, and then deleted, this counter will
be incremented by 2.

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For
example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short
periods of time.

Note that the table size can be determined by subtracting
hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 5 }

hlHostControlNlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the
nlHostTable on behalf of this control entry. The probe will
not create more than this number of associated entries in the
table but may choose to create fewer entries in this table
for any reason, including the lack of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number

of entries in this table. If the associated
hlHostControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."

::= { hlHostControlEntry 6 }

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
hlHostControlAlDeletes from hlHostControlAlInserts."
::= { hlHostControlEntry 8 }

hlHostControlAlDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an alHost entry has been deleted from the alHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For

example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting
hlHostControlAlDeletes from hlHostControlAlInserts."

::= { hlHostControlEntry 9 }

hlHostControlAlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alHost table on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated `hlHostControlStatus` object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlHostControlEntry 10 }

`hlHostControlOwner` OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { hlHostControlEntry 11 }

`hlHostControlStatus` OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this `hlHostControlEntry`.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to `active(1)`, all associated entries in the `nlHostTable` and `alHostTable` shall be deleted."

::= { hlHostControlEntry 12 }

`nlHostTable` OBJECT-TYPE

SYNTAX SEQUENCE OF `NlHostEntry`

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A collection of statistics for a particular network layer

address that has been discovered on an interface of this device.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirHostConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses seen as the source or destination address in all packets with no MAC errors, and will increment octet and packet counts in the table for all packets with no MAC errors."

::= { nlHost 2 }

nlHostEntry OBJECT-TYPE

SYNTAX NlHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlHostTable.

The hlHostControlIndex value in the index identifies the hlHostControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network layer protocol of the nlHostAddress.

An example of the indexing of this entry is
nlHostOutPkts.1.783495.18.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

INDEX { hlHostControlIndex, nlHostTimeMark,
protocolDirLocalIndex, nlHostAddress }

::= { nlHostTable 1 }

NlHostEntry ::= SEQUENCE {

nlHostTimeMark	TimeFilter,
nlHostAddress	OCTET STRING,
nlHostInPkts	ZeroBasedCounter32,
nlHostOutPkts	ZeroBasedCounter32,
nlHostInOctets	ZeroBasedCounter32,
nlHostOutOctets	ZeroBasedCounter32,

```

nlHostOutMacNonUnicastPkts ZeroBasedCounter32,
nlHostCreateTime          LastCreateTime
}

```

nlHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { nlHostEntry 1 }

nlHostAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network address for this nlHostEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

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

::= { nlHostEntry 2 }

nlHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted to

this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 3 }

nlHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 4 }

nlHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nlHostEntry 5 }

nlHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::=

{ nlHostEntry 6 }

nlHostOutMacNonUnicastPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address that were directed to any MAC broadcast addresses or to any MAC multicast addresses since this host was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 7 }

nlHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlHostEntry 8 }

--

-- Network Layer Matrix

Group

--

-- Counts the amount of traffic sent between each pair of network addresses discovered by the probe.

-- Note that while the hlMatrixControlTable also has objects that control optional alMatrixTables, implementation of the

-- alMatrixTables is not required to fully implement this group.

hlMatrixControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) matrix control entries.

These entries will enable the collection of the network- and application-level matrix tables containing conversation statistics indexed by pairs of network addresses.

Both the network- and application-level matrix tables are controlled by this table so that they will both be created and deleted at the same time, further increasing the ease with which they can be implemented as a single datastore. (Note that if an implementation stores application-layer matrix records

in memory, it can derive network-layer matrix records from them.)

Entries in the nlMatrixSDTable and nlMatrixDSTable will be created on behalf of each entry in this table. Additionally, if this probe implements the alMatrix tables, entries in the alMatrix tables will be created on behalf of each entry in this table."

::= { nlMatrix 1 }

hlMatrixControlEntry OBJECT-TYPE

SYNTAX HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlMatrixControlTable.

An example of indexing of this entry is

hlMatrixControlNlDroppedFrames.1"

INDEX { hlMatrixControlIndex }

::= { hlMatrixControlTable 1 }

HlMatrixControlEntry ::= SEQUENCE {

hlMatrixControlIndex Integer32,

hlMatrixControlDataSource DataSource,

hlMatrixControlNlDroppedFrames

Counter32,

hlMatrixControlNlInserts Counter32,

hlMatrixControlNlDeletes Counter32,

hlMatrixControlNlMaxDesiredEntries Integer32,

hlMatrixControlAlDroppedFrames Counter32,

hlMatrixControlAlInserts Counter32,

hlMatrixControlAlDeletes Counter32,

hlMatrixControlAlMaxDesiredEntries Integer32,

hlMatrixControlOwner OwnerString,

hlMatrixControlStatus RowStatus

}

hlMatrixControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the hlMatrixControlTable. Each such entry defines a function that discovers conversations on a particular interface and places statistics about them in the

nlMatrixSDTable and the nlMatrixDSTable, and optionally the
alMatrixSDTable and alMatrixDSTable, on
behalf of this

hlMatrixControlEntry."
::= { hlMatrixControlEntry 1 }

hlMatrixControlDataSource OBJECT-TYPE

SYNTAX DataSource
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The source of the data for the associated matrix tables.

The statistics in this group reflect all packets
on the local network segment attached to the
identified interface.

This object may not be modified if the associated
hlMatrixControlStatus object is equal to active(1)."
::= { hlMatrixControlEntry 2 }

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
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."

::= { hlMatrixControlEntry 5 }

hlMatrixControlNlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The

maximum number of entries that are desired in the
nlMatrix tables on behalf of this control entry. The probe
will not create more than this number of associated entries in
the table but may choose to create fewer entries in this
table for any reason, including the lack of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number
of entries in this table. If the associated
hlMatrixControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."

::= { hlMatrixControlEntry 6 }

hlMatrixControlAlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe chose not to count for this entry for
whatever reason. Most often, this event occurs when the probe
is out of some resources and decides to shed load from this
collection.

This count does not include packets that were not counted

because they had MAC-layer errors.

Note that if the alMatrixTables are not implemented or are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { hlMatrixControlEntry 7 }

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
hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
::= { hlMatrixControlEntry 9 }

hlMatrixControlAlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."
::= { hlMatrixControlEntry 10 }

hlMatrixControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { hlMatrixControlEntry 11 }

hlMatrixControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this hlMatrixControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixSDTable, nlMatrixDSTable, alMatrixSDTable,

and alMatrixDSTable

shall be deleted by the agent."

::= { hlMatrixControlEntry 12 }

nlMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix entries that collect statistics for conversations between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all conversations from a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no

MAC errors and will increment

octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixDSTable with the same source address and destination address."

::= { nlMatrix 2 }

nlMatrixSDEntry OBJECT-TYPE

SYNTAX NlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

An example of the indexing of this table is

nlMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.

Note that some combinations of index values may result in an

index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex, nlMatrixSDTimeMark,
protocolDirLocalIndex,
nlMatrixSDSourceAddress, nlMatrixSDDestAddress }

::= { nlMatrixSDTable 1 }

NlMatrixSDEntry ::= SEQUENCE {

nlMatrixSDTimeMark TimeFilter,
nlMatrixSDSourceAddress OCTET STRING,
nlMatrixSDDestAddress OCTET STRING,
nlMatrixSDPkts ZeroBasedCounter32,
nlMatrixSDOctets ZeroBasedCounter32,
nlMatrixSDCreateTime LastCreateTime
}

nlMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual

convention to see how this works."

::= { nlMatrixSDEntry 1 }

nlMatrixSDSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network source address for this nlMatrixSDEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

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

::= { nlMatrixSDEntry 2 }

nlMatrixSDDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this nlMatrixSDEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an

encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixSDEntry 3 }

nlMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the source address to the destination address since this entry was

added to the nlMatrixSDTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlMatrixSDEntry 4 }

nlMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to

the destination address since this entry was added to the nlMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nlMatrixSDEntry 5 }

nlMatrixSDCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlMatrixSDEntry 6 }

-- Traffic matrix tables from destination to source

nlMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix

entries that collect statistics for

conversations between two network-level addresses. This table is indexed first by the destination address and then by the

source address to make it convenient to collect all conversations to a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixSDTable with the same source address and destination

address."

::= { nlMatrix 3 }

nlMatrixDSEntry OBJECT-TYPE

SYNTAX NlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixDSSourceAddress and nlMatrixDSDestAddress.

An example of the indexing of this table is
nlMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex, nlMatrixDSTimeMark,
protocolDirLocalIndex,

nlMatrixDSDestAddress,
nlMatrixDSSourceAddress }
::= { nlMatrixDSTable 1 }

```

nlMatrixDSEntry ::= SEQUENCE {
    nlMatrixDSTimeMark      TimeFilter,
    nlMatrixDSSourceAddress OCTET STRING,
    nlMatrixDSDestAddress   OCTET STRING,
    nlMatrixDSPkts          ZeroBasedCounter32,
    nlMatrixDSOctets        ZeroBasedCounter32,
    nlMatrixDSCreateTime    LastCreateTime
}

```

nlMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { nlMatrixDSEntry 1 }

nlMatrixDSSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network source address for this nlMatrixDSEntry.

This is represented as an octet string with specific semantics and

length as identified

by the protocolDirLocalIndex component of the index.

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

::= { nlMatrixDSEntry 2 }

nlMatrixDSDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this nlMatrixDSEntry.

This is represented as an octet string with specific semantics and length as identified

by the protocolDirLocalIndex component of the index.

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

::= { nlMatrixDSEntry 3 }

nlMatrixDSPkts

OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the source address to the destination address since this entry was added to the nlMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlMatrixDSEntry 4 }

nlMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to the destination address since this entry was added to the nlMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nlMatrixDSEntry 5 }

nlMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlMatrixDSEntry 6 }

nlMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a report of the top N matrix entries according to a selected metric."

::= { nlMatrix 4 }

nlMatrixTopNControlEntry OBJECT-TYPE

SYNTAX NlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row
in the nlMatrixTopNControlTable.

An example of the indexing of this table is

nlMatrixTopNControlDuration.3"

INDEX { nlMatrixTopNControlIndex }

::= { nlMatrixTopNControlTable 1 }

```
NlMatrixTopNControlEntry ::= SEQUENCE {  
    nlMatrixTopNControlIndex      Integer32,  
    nlMatrixTopNControlMatrixIndex Integer32,  
    nlMatrixTopNControlRateBase   INTEGER,  
    nlMatrixTopNControlTimeRemaining Integer32,  
    nlMatrixTopNControlGeneratedReports Counter32,  
    nlMatrixTopNControlDuration   Integer32,  
    nlMatrixTopNControlRequestedSize Integer32,  
    nlMatrixTopNControlGrantedSize Integer32,  
    nlMatrixTopNControlStartTime  TimeStamp,  
    nlMatrixTopNControlOwner      OwnerString,  
    nlMatrixTopNControlStatus     RowStatus  
}
```

nlMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry

in the nlMatrixTopNControlTable. Each such entry defines one topN report prepared for one interface."

::= { nlMatrixTopNControlEntry 1 }

nlMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The nlMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The nlMatrix[SD/DS] table is identified by the value of the hlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1)."

::= { nlMatrixTopNControlEntry 2 }

nlMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {

nlMatrixTopNPkts(1),
nlMatrixTopNOctets(2),
nlMatrixTopNHighCapacityPkts(3),
nlMatrixTopNHighCapacityOctets(4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The variable for each nlMatrix[SD/DS] entry that the nlMatrixTopNEntries are sorted by, as well as a control for the table that the results will be reported in.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1).

If this value is less than or equal to 2, when the report is prepared, entries are created in the nlMatrixTopNTable associated with this object.

If this value is greater than or equal to 3, when the report is prepared, entries are created in the nlMatrixTopNHighCapacityTable associated with this object."

::= { nlMatrixTopNControlEntry 3 }

nlMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left

in the report currently

being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this

report and is immediately loaded into the associated nlMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of nlMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly, checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value of this object is non-zero, it decrements by one per second until it reaches zero. At the time that this object decrements to zero, the report is made accessible

in the nlMatrixTopNTable, overwriting any report that may be there.

When this object is modified by the management station, any associated entries in the nlMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used in the hostTopNTable)."

DEFVAL { 1800 }

::= { nlMatrixTopNControlEntry 4 }

nlMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

::= { nlMatrixTopNControlEntry 5 }

nlMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated nlMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same

value and shall not be modified until the next time the nlMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this nlMatrixTopNControlEntry."

::= { nlMatrixTopNControlEntry 6 }

nlMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set nlMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }

::= { nlMatrixTopNControlEntry 7 }

nlMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When

the associated nlMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this

value except as a side-effect of a set to the associated
nlMatrixTopNControlRequestedSize object.

If the value of nlMatrixTopNControlRateBase is equal to
nlMatrixTopNPkts, when the next topN report is generated,
matrix entries with the highest value of nlMatrixTopNPktRate
shall be placed in this table in decreasing order of this rate
until there is no more room or until there are no more
matrix entries.

If the value of nlMatrixTopNControlRateBase is equal to
nlMatrixTopNOctets, when the next topN report is generated,
matrix entries with the highest value of nlMatrixTopNOctetRate
shall be placed in this table in decreasing
order of this rate
until there is no more room or until there are no more
matrix entries.

It is an implementation-specific matter how entries with the
same value of nlMatrixTopNPktRate or nlMatrixTopNOctetRate are
sorted. It is also an implementation-specific matter as to

whether zero-valued entries are available."

::= { nlMatrixTopNControlEntry 8 }

nlMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was
last started. In other words, this is the time that
the associated nlMatrixTopNControlTimeRemaining object was
modified to start the requested report or the time
the report was last automatically (re)started.

This object may be used by the management station to
determine whether a report was missed."

::= { nlMatrixTopNControlEntry 9 }

nlMatrixTopNControlOwner

OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."
::= { nlMatrixTopNControlEntry 10 }

nlMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this nlMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixTopNTable shall be deleted by the agent."

::= { nlMatrixTopNControlEntry 11 }

nlMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of statistics for those network-layer matrix entries

that have counted the highest number of octets or packets."
::= { nlMatrix 5 }

nlMatrixTopNEntry OBJECT-TYPE

SYNTAX NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixTopNTable.

The nlMatrixTopNControlIndex value in the index identifies the nlMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is
nlMatrixTopNPktRate.3.10"

INDEX { nlMatrixTopNControlIndex, nlMatrixTopNIndex }

::= { nlMatrixTopNTable 1 }

```

nlMatrixTopNEntry ::= SEQUENCE {
    nlMatrixTopNIndex          Integer32,
    nlMatrixTopNProtocolDirLocalIndex Integer32,
    nlMatrixTopNSourceAddress   OCTET STRING,
    nlMatrixTopNDestAddress     OCTET STRING,
    nlMatrixTopNPktRate         Gauge32,
    nlMatrixTopNReversePktRate  Gauge32,
    nlMatrixTopNOctetRate       Gauge32,
    nlMatrixTopNReverseOctetRate
        Gauge32
}

```

nlMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the nlMatrixTopNTable among those in the same report. This index is between 1 and N, where N is the number of entries in this report.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, increasing values of nlMatrixTopNIndex shall be assigned to entries with decreasing values of nlMatrixTopNPktRate until index N is assigned or there are no more nlMatrixTopNEntries.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, increasing values of nlMatrixTopNIndex

shall be assigned to entries with decreasing values of nlMatrixTopNOctetRate until index N is assigned or there are no more nlMatrixTopNEntries."

::= { nlMatrixTopNEntry 1 }

nlMatrixTopNProtocolDirLocalIndex

OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { nlMatrixTopNEntry 2 }

nlMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

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

::= { nlMatrixTopNEntry 3 }

nlMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET

STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

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

::= { nlMatrixTopNEntry 4 }

nlMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object.

If the value of nlMatrixTopNControlRateBase is
nlMatrixTopNPkts,
this variable will be used to sort this
report."
::= { nlMatrixTopNEntry 5 }

nlMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the destination host to the
source host during this sampling interval, counted
using the rules for counting the nlMatrixSDPkts object. (Note
that the corresponding nlMatrixSDPkts object selected is the
one whose source address is equal to nlMatrixTopNDestAddress
and whose destination address is equal to
nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal
to nlMatrixTopNPkts, the sort of topN entries is based
entirely on nlMatrixTopNPktRate, and not on the value of this
object."

::= { nlMatrixTopNEntry 6 }

nlMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen from the source host
to the destination host during this sampling interval, counted
using the rules for counting the nlMatrixSDOctets object. If
the value of nlMatrixTopNControlRateBase is
nlMatrixTopNOctets, this variable will be used to sort this
report."

::= { nlMatrixTopNEntry 7 }

nlMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen from the destination host to the
source host during this sampling interval, counted

using the rules for counting the nlMatrixDSOctets object. (Note that the corresponding nlMatrixSDOctets object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, the sort of topN entries is based entirely on nlMatrixTopNOctetRate, and not on the value of this object."

::= { nlMatrixTopNEntry 8 }

-- Application Layer Functions

--

-- The application layer host, matrix, and matrixTopN functions report on protocol usage at the network layer or higher. Note that the use of the term application layer does not imply that only application-layer protocols are counted, rather it means that protocols up to and including the application layer are supported.

--

-- Application Layer Host Group

--

-- Counts the amount of traffic, by protocol, sent from and to each network address discovered by the probe.
-- Implementation of this group requires implementation of the Network Layer Host Group.

alHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A collection of statistics for a particular protocol from a

particular network address that has been discovered on an interface of this device.

The probe will populate this table for all protocols in the protocol directory table whose value of protocolDirHostConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses

seen as the source or destination address in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address exists in the nlHostTable and will be deleted from this table if their address is deleted from the nlHostTable."

::= { alHost 1 }

alHostEntry OBJECT-TYPE

SYNTAX AlHostEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A conceptual row in the alHostTable.

The hlHostControlIndex value in the index identifies the hlHostControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the address.

The nlHostAddress value in the index identifies the network-layer address of this entry.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing in this entry is
alHostOutPkts.1.783495.18.4.128.2.6.6.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlHostControlIndex, alHostTimeMark,
protocolDirLocalIndex,

nlHostAddress,

protocolDirLocalIndex }

::= { alHostTable 1 }

AlHostEntry ::= SEQUENCE {

alHostTimeMark TimeFilter,

alHostInPkts ZeroBasedCounter32,

alHostOutPkts ZeroBasedCounter32,

alHostInOctets ZeroBasedCounter32,

alHostOutOctets ZeroBasedCounter32,

alHostCreateTime LastCreateTime

}

alHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alHostEntry 1 }

alHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted to this address since it was added to the alHostTable. Note that this is the number

of link-layer

packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 2 }

alHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted by this address since it was added to the alHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 3 }

alHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address of this protocol type since it was added to the alHostTable (excluding framing bits, but

including

FCS octets), excluding octets in packets that

contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 4 }

alHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address of this protocol type since it was added to the alHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 5 }

alHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alHostEntry 6 }

--

-- Application Layer Matrix Group

--

-- Counts the amount of traffic, by protocol, sent between each pair of network addresses discovered by the probe.

-- Implementation of this group requires implementation of the Network

-- Layer Matrix Group.

alMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all statistics from a particular address.

The probe will populate
this table for all protocols in the
protocol directory table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for
all protocols seen in all packets with no MAC errors and will
increment octet and packet counts in the table for all packets
with no MAC errors. Further, entries will only be added to
this table if their address pair exists in the nlMatrixSDTable
and will be deleted from this table if the address pair is
deleted from the nlMatrixSDTable."

::= { alMatrix 1 }

alMatrixSDEntry OBJECT-TYPE

SYNTAX AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixSDTable.

The hlMatrixControlIndex value in the index
identifies the

hlMatrixControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies
the network-layer protocol of the nlMatrixSDSourceAddress and
nlMatrixSDDestAddress.

The nlMatrixSDSourceAddress value in the index identifies the
network-layer address of the source host in this conversation.

The nlMatrixSDDestAddress value in the index identifies the
network-layer address of the destination host in this
conversation.

The second protocolDirLocalIndex value in the index identifies
the protocol that is counted by this entry.

An example of the indexing of this entry is
alMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

```
INDEX { hlMatrixControlIndex, alMatrixSDTimeMark,
        protocolDirLocalIndex,
        nlMatrixSDSourceAddress, nlMatrixSDDestAddress,
        protocolDirLocalIndex }
 ::= { alMatrixSDTable 1 }
```

```
AlMatrixSDEntry ::= SEQUENCE {
    alMatrixSDTimeMark      TimeFilter,
```

```
    alMatrixSDPkts          ZeroBasedCounter32,
    alMatrixSDOctets         ZeroBasedCounter32,
    alMatrixSDCreateTime     LastCreateTime
}
```

alMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

```
::= { alMatrixSDEntry 1 }
```

alMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted

from the source address to the destination address

since this entry was added to the alMatrixSDTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

```
::= { alMatrixSDEntry 2 }
```

alMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixSDEntry 3 }

alMatrixSDCreateTime

OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alMatrixSDEntry 4 }

-- Traffic matrix tables from destination to source

alMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by the destination address and then by the source address to make it convenient to collect all statistics to a particular address.

The probe will populate this table for all protocols in the protocol directory

table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or

has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for all protocols seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address pair exists in the nlMatrixDSTable and will be deleted from this table if the address pair is deleted from the nlMatrixDSTable."

::= { alMatrix 2 }

alMatrixDSEntry OBJECT-TYPE

SYNTAX AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the alMatrixDSSourceAddress and alMatrixDSDestAddress.

The nlMatrixDSDestAddress value in the index identifies the network-layer address of the destination host in this

conversation.

The nlMatrixDSSourceAddress value in the index identifies the network-layer address of the source host in this conversation.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing of this entry is

alMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex,
alMatrixDSTimeMark,
protocolDirLocalIndex,
nlMatrixDSDestAddress, nlMatrixDSSourceAddress,
protocolDirLocalIndex }
::= { alMatrixDSTable 1 }

```

AlMatrixDSEntry ::= SEQUENCE {
    alMatrixDSTimeMark      TimeFilter,
    alMatrixDSPkts          ZeroBasedCounter32,
    alMatrixDSOctets        ZeroBasedCounter32,
    alMatrixDSCreateTime    LastCreateTime
}

```

alMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alMatrixDSEntry 1 }

alMatrixDSPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted from the source address to the destination address

since this entry was added to the alMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alMatrixDSEntry 2 }

alMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixDSEntry 3 }

alMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alMatrixDSEntry 4 }

alMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a report of the top N matrix entries according to a selected metric."

::= { alMatrix 3 }

alMatrixTopNControlEntry OBJECT-TYPE

SYNTAX AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNControlTable.

An example of the indexing of this table is

alMatrixTopNControlDuration.3"

INDEX { alMatrixTopNControlIndex }

::= { alMatrixTopNControlTable 1 }

AlMatrixTopNControlEntry

::= SEQUENCE {

alMatrixTopNControlIndex Integer32,

alMatrixTopNControlMatrixIndex Integer32,

alMatrixTopNControlRateBase INTEGER,

alMatrixTopNControlTimeRemaining Integer32,

alMatrixTopNControlGeneratedReports Counter32,

alMatrixTopNControlDuration Integer32,

alMatrixTopNControlRequestedSize Integer32,

alMatrixTopNControlGrantedSize Integer32,


```

alMatrixTopNControlStartTime      TimeStamp,
alMatrixTopNControlOwner          OwnerString,
alMatrixTopNControlStatus         RowStatus
}

```

alMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the alMatrixTopNControlTable. Each such entry defines one topN report prepared for one interface."

::= { alMatrixTopNControlEntry 1 }

alMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The alMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The alMatrix[SD/DS] table is identified by the value of the hlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

::= { alMatrixTopNControlEntry 2 }

alMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {

```

    alMatrixTopNTerminalsPkts(1),
    alMatrixTopNTerminalsOctets(2),
    alMatrixTopNAllPkts(3),
    alMatrixTopNAllOctets(4),
    alMatrixTopNTerminalsHighCapacityPkts(5),
    alMatrixTopNTerminalsHighCapacityOctets(6),

```

```

    alMatrixTopNAllHighCapacityPkts(7),

```

```

    alMatrixTopNAllHighCapacityOctets(8)

```

```

}

```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object controls which alMatrix[SD/DS] entry that the alMatrixTopNEntries are sorted by, which view of the matrix table that will be used, as well as which table the results will be reported in.

The values alMatrixTopNTerminalsPkts, alMatrixTopNTerminalsOctets, alMatrixTopNTerminalsHighCapacityPkts, and alMatrixTopNTerminalsHighCapacityOctets cause collection only from protocols that have no child protocols that are counted. The values alMatrixTopNAllPkts, alMatrixTopNAllOctets, alMatrixTopNAllHighCapacityPkts, and alMatrixTopNAllHighCapacityOctets cause collection from all alMatrix entries.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

```
::= { alMatrixTopNControlEntry
3 }
```

alMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left in the report currently being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this report and is immediately loaded into the associated alMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of alMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly, checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value of this object is non-zero, it decrements by one per second until it reaches zero. At the time

that this object decrements to zero, the report is made accessible in the alMatrixTopNTable, overwriting any report that may be there.

When this object is modified by the management station, any associated entries in the alMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used in the hostTopNTable)."

DEFVAL { 1800 }

::= { alMatrixTopNControlEntry 4 }

alMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

::= { alMatrixTopNControlEntry 5 }

alMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated alMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same value and shall not be modified until the next time the alMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this alMatrixTopNControlEntry."

::= { alMatrixTopNControlEntry 6 }

alMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set alMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }
::= { alMatrixTopNControlEntry 7 }

alMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When the associated alMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated alMatrixTopNControlRequestedSize object.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNOctetRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of alMatrixTopNPktRate or alMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to whether zero-valued entries are available."

::= { alMatrixTopNControlEntry 8 }

alMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was

last started. In other words, this is the time that the associated alMatrixTopNControlTimeRemaining object was modified to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."
::= { alMatrixTopNControlEntry 9 }

alMatrixTopNControlOwner OBJECT-TYPE

SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is therefore using the resources assigned to it."
::= { alMatrixTopNControlEntry 10 }

alMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this alMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the alMatrixTopNTable shall be deleted by the agent."

::= { alMatrixTopNControlEntry
11 }

alMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A set of statistics for those application-layer matrix entries that have counted the highest number of octets or packets."
::= { alMatrix 4 }

alMatrixTopNEntry OBJECT-TYPE

SYNTAX AlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNTable.

The alMatrixTopNControlIndex value in the index identifies the alMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is

alMatrixTopNPktRate.3.10"

INDEX { alMatrixTopNControlIndex, alMatrixTopNIndex }

::= { alMatrixTopNTable 1 }

AlMatrixTopNEntry ::= SEQUENCE {

alMatrixTopNIndex Integer32,

alMatrixTopNProtocolDirLocalIndex Integer32,

alMatrixTopNSourceAddress OCTET STRING,

alMatrixTopNDestAddress OCTET STRING,

alMatrixTopNAppProtocolDirLocalIndex Integer32,

alMatrixTopNPktRate Gauge32,

alMatrixTopNReversePktRate Gauge32,

alMatrixTopNOctetRate Gauge32,

alMatrixTopNReverseOctetRate Gauge32

}

alMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the alMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the number of entries in this report.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNPktRate until index N is

assigned or there are no more alMatrixTopNEntries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNOctetRate until index N is assigned or there are no more alMatrixTopNEntries."

::= { alMatrixTopNEntry 1 }

alMatrixTopNProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { alMatrixTopNEntry 2 }

alMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

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

::= { alMatrixTopNEntry 3 }

alMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network

byte order."

::= { alMatrixTopNEntry 4 }

alMatrixTopNAppProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of the protocol counted by this matrix entry."

::= { alMatrixTopNEntry 5 }

alMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting the alMatrixSDPkts object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, this variable will be used to sort this report."

::= { alMatrixTopNEntry 6 }

alMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSPkts object. (Note that the corresponding alMatrixSDPkts object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, the sort of topN entries is based entirely on alMatrixTopNPktRate, and not on the value of this object."

::= { alMatrixTopNEntry 7 }

alMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting

the alMatrixSDOctets object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, this variable will be used to sort this report."

::= { alMatrixTopNEntry 8 }

alMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSOctets object. (Note that the corresponding alMatrixSDOctets object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, the sort of topN entries is based entirely on

alMatrixTopNOctetRate, and not on the value of this object."

::= { alMatrixTopNEntry 9 }

--

-- User History Collection Group (usrHistory)

--

-- The usrHistory group combines mechanisms seen in the alarm and history groups to provide user-specified history collection, utilizing two additional control tables and one additional data table. This function has traditionally been done by NMS applications, via periodic polling. The usrHistory group allows this task to be offloaded to an RMON probe.

--

-- Data (an ASN.1 INTEGER based object) is collected in the same manner as any history data table (e.g., etherHistoryTable) except that the user specifies the MIB instances to be collected. Objects are collected in bucket-groups, with the intent that all MIB instances in the same bucket-group are collected as atomically as possible by the RMON probe.

--

-- The usrHistoryControlTable is a one-dimensional read-create table. Each row configures a collection of user history buckets, much the same as a historyControlEntry, except that the creation of a row in this table will cause one or more associated instances in the usrHistoryObjectTable to be created. The user specifies the number of bucket elements (rows in the usrHistoryObjectTable) requested, as well as the number of buckets requested.

--

-- The usrHistoryObjectTable is a 2-d read-write table. Each row configures a single MIB instance to be collected. All rows with the same major index constitute a bucket-group.

--

-- The usrHistoryTable is a 3-d read-only table containing

-- the data of associated usrHistoryControlEntries. Each entry represents the value of a single MIB instance during a specific sampling interval (or the rate of change during the interval).

--

-- A sample value is stored in two objects - an absolute value and a status object. This allows numbers from $-(2G-1)$ to $+4G$ to be stored. The status object also indicates whether a sample is valid. This allows data collection to continue if periodic retrieval of a particular instance fails for any reason.

--

-- Row Creation Order Relationships

--

-- The static nature of the usrHistoryObjectTable creates some row creation/modification issues. The rows in this table need to be set before the associated

```
-- usrHistoryControlEntry can be activated.
--
-- Note that the usrHistoryObject entries associated with a
-- particular usrHistoryControlEntry are not required to
-- be active before the control entry is activated. However,
-- the usrHistory data entries associated with an inactive
-- usrHistoryObject entry will be inactive (i.e.,
-- usrHistoryValStatus == valueNotAvailable).
--
```

usrHistoryControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of data-collection configuration entries."

::= { usrHistory 1 }

usrHistoryControlEntry OBJECT-TYPE

SYNTAX UsrHistoryControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of parameters that set up a group of user-defined
MIB objects to be sampled periodically (called a
bucket-group).

For example, an instance of usrHistoryControlInterval
might be named usrHistoryControlInterval.1"

INDEX { usrHistoryControlIndex }

::= { usrHistoryControlTable 1 }

```
UsrHistoryControlEntry ::= SEQUENCE {
    usrHistoryControlIndex      Integer32,
    usrHistoryControlObjects    Integer32,
    usrHistoryControlBucketsRequested Integer32,
    usrHistoryControlBucketsGranted Integer32,
    usrHistoryControlInterval   Integer32,
    usrHistoryControlOwner      OwnerString,
    usrHistoryControlStatus     RowStatus
}
```

usrHistoryControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current
DESCRIPTION
"An index that uniquely
identifies an entry in the
usrHistoryControlTable. Each such entry defines a
set of samples at a particular interval for a specified
set of MIB instances available from the managed system."
::= { usrHistoryControlEntry 1 }

usrHistoryControlObjects OBJECT-TYPE
SYNTAX Integer32 (1..65535)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The number of MIB objects to be collected
in the portion of usrHistoryTable associated with this
usrHistoryControlEntry.

This object may not be modified if the associated instance
of usrHistoryControlStatus is equal to active(1)."
::= { usrHistoryControlEntry 2 }

usrHistoryControlBucketsRequested OBJECT-TYPE
SYNTAX Integer32 (1..65535)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The requested number of discrete time intervals
over which data is to be saved in the part of the
usrHistoryTable associated with this usrHistoryControlEntry.

When this object is created or modified, the probe
should set usrHistoryControlBucketsGranted as closely to
this object as possible for the particular probe
implementation and available resources."
DEFVAL { 50 }

::= { usrHistoryControlEntry 3 }

usrHistoryControlBucketsGranted OBJECT-TYPE
SYNTAX Integer32 (1..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of discrete sampling intervals
over which data shall be saved in the part of

the usrHistoryTable associated with this
usrHistoryControlEntry.

When the associated usrHistoryControlBucketsRequested object is created or modified, the probe should set this object as closely to the requested value as possible for the particular probe implementation and available resources. The probe must not lower this value except as a result of a modification to the associated usrHistoryControlBucketsRequested object.

The associated usrHistoryControlBucketsRequested object should be set before or at the same time as this object to allow the probe to accurately estimate the resources required for this usrHistoryControlEntry.

There will be times when the actual number of buckets associated with this entry is less than the value of this object. In this case, at the end of each sampling interval, a new bucket will be added to the usrHistoryTable.

When the number of buckets reaches the value of this object and a new bucket is to be added to the usrHistoryTable, the oldest bucket associated with this usrHistoryControlEntry shall be deleted by the agent so that the new bucket can be added.

When the value of this object changes to a value less than the current value, entries are deleted from the
usrHistoryTable associated with
this usrHistoryControlEntry.

Enough of the oldest of these entries shall be deleted by the agent so that their number remains less than or equal to the new value of this object.

When the value of this object changes to a value greater than the current value, the number of associated usrHistory entries may be allowed to grow."

::= { usrHistoryControlEntry 4 }

usrHistoryControlInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interval in seconds over which the data is sampled for each bucket in the part of the usrHistory table associated with this usrHistoryControlEntry.

Because the counters in a bucket may overflow at their maximum value with no indication, a prudent manager will take into account the possibility of overflow in any of the associated counters. It is important to consider the

minimum time in which any counter could overflow on a particular media type and to set the usrHistoryControlInterval object to a value less than this interval.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

DEFVAL { 1800 }

::= { usrHistoryControlEntry 5 }

usrHistoryControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { usrHistoryControlEntry 6 }

usrHistoryControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this variable history control entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries

in the usrHistoryTable shall be deleted."

::= { usrHistoryControlEntry 7 }

-- Object table

usrHistoryObjectTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of data-collection configuration entries."

::= { usrHistory 2 }

usrHistoryObjectEntry OBJECT-TYPE

SYNTAX UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of MIB instances to be sampled periodically.

Entries in this table are created when an associated
usrHistoryControlObjects object is created.

The usrHistoryControlIndex value in the index is
that of the associated usrHistoryControlEntry.

For example, an instance of usrHistoryObjectVariable might be
usrHistoryObjectVariable.1.3"

INDEX { usrHistoryControlIndex, usrHistoryObjectIndex }

::= { usrHistoryObjectTable 1 }

UsrHistoryObjectEntry ::= SEQUENCE {

usrHistoryObjectIndex	Integer32,
usrHistoryObjectVariable	OBJECT IDENTIFIER,
usrHistoryObjectSampleType	INTEGER

}

usrHistoryObjectIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index used to uniquely identify an entry in the
usrHistoryObject table. Each such entry defines a
MIB instance to be collected periodically."

::= { usrHistoryObjectEntry 1 }

usrHistoryObjectVariable OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object identifier of the particular variable to be

sampled.

Only variables that resolve to an ASN.1 primitive type of Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be sampled.

Because SNMP access control is articulated entirely in terms of the contents of MIB views, no access control mechanism

exists that can restrict the value of this object to identify

only those objects that exist in a particular MIB view.

Because there is thus no acceptable means of restricting the read access that could be obtained through the user history mechanism, the probe must only grant write access to this object in those views that have read access to all objects on the probe. See USM [RFC3414] and VACM [RFC3415] for more information.

During a set operation, if the supplied variable name is not available in the selected MIB view, a badValue error must be returned.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

::= { usrHistoryObjectEntry 2 }

usrHistoryObjectSampleType OBJECT-TYPE

```
SYNTAX INTEGER {  
    absoluteValue(1),  
    deltaValue(2)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The method of sampling the selected variable for storage in the usrHistoryTable.

If the value of this object is absoluteValue(1), the value of the selected variable will be copied directly into the history bucket.

If the value of this object is deltaValue(2), the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the

history bucket. If the associated usrHistoryObjectVariable instance could not be obtained at the previous sample interval, then a delta sample is not possible, and the value of the associated usrHistoryValStatus object for this interval will be valueNotAvailable(1).

This object may not be modified if the associated
usrHistoryControlStatus object is equal to active(1)."
::= { usrHistoryObjectEntry 3 }

-- data table

usrHistoryTable OBJECT-TYPE
SYNTAX SEQUENCE OF UsrHistoryEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A list of user-defined history entries."
::= { usrHistory 3 }

usrHistoryEntry OBJECT-TYPE
SYNTAX UsrHistoryEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A historical sample of user-defined variables. This sample
is associated with the usrHistoryControlEntry that set up the
parameters for a regular collection of these samples.

The usrHistoryControlIndex value in the index identifies the
usrHistoryControlEntry on whose behalf this entry was created.
The usrHistoryObjectIndex value in the index identifies the
usrHistoryObjectEntry on whose behalf this entry was created.

For example, an instance of usrHistoryAbsValue, which represents
the 14th sample of a variable collected as specified by
usrHistoryControlEntry.1 and usrHistoryObjectEntry.1.5,
would be named usrHistoryAbsValue.1.14.5"
INDEX { usrHistoryControlIndex, usrHistorySampleIndex,
usrHistoryObjectIndex }
::= { usrHistoryTable 1 }

UsrHistoryEntry ::= SEQUENCE {
usrHistorySampleIndex Integer32,
usrHistoryIntervalStart TimeStamp,
usrHistoryIntervalEnd TimeStamp,

```
usrHistoryAbsValue    Gauge32,  
usrHistoryValStatus   INTEGER  
}
```

```
usrHistorySampleIndex OBJECT-TYPE  
SYNTAX   Integer32 (1..2147483647)  
MAX-ACCESS not-accessible  
STATUS   current
```

DESCRIPTION

"An index that uniquely identifies the particular sample this entry represents among all samples associated with the same usrHistoryControlEntry. This index starts at 1 and increases by one as each new sample is taken."

::= { usrHistoryEntry 1 }

```
usrHistoryIntervalStart OBJECT-TYPE  
SYNTAX   TimeStamp  
MAX-ACCESS read-only  
STATUS   current  
DESCRIPTION
```

"The value of sysUpTime at the start of the interval over which this sample was measured. If the probe keeps track of the time of day, it should start the first sample of the history at a time such that when the next hour of the day begins, a sample is started at that instant.

Note that following this rule may require that the probe delay collecting the first sample of the history, as each sample must be of the same interval. Also note that the sample that is currently being collected is not accessible in this table until the end of its interval."

::= { usrHistoryEntry 2 }

```
usrHistoryIntervalEnd OBJECT-TYPE  
SYNTAX   TimeStamp  
MAX-ACCESS read-only  
STATUS   current  
DESCRIPTION
```

"The value of sysUpTime at the end of the interval over which this sample was measured."

::= { usrHistoryEntry 3 }

```
usrHistoryAbsValue OBJECT-TYPE  
SYNTAX   Gauge32
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The absolute value (i.e., unsigned value) of the

user-specified statistic during the last sampling period. The value during the current sampling period is not made available until the period is completed.

To obtain the true value for this sampling interval, the associated instance of `usrHistoryValStatus` must be checked, and `usrHistoryAbsValue` adjusted as necessary.

If the MIB instance could not be accessed during the sampling interval, then this object will have a value of zero, and the associated instance of `usrHistoryValStatus` will be set to `'valueNotAvailable(1)'`.

The access control check prescribed in the definition of `usrHistoryObjectVariable` SHOULD be checked for each sampling interval. If this check determines that access should not be allowed, then this object will have a value of zero, and the associated instance of `usrHistoryValStatus` will be set to `'valueNotAvailable(1)'`.

```
::= { usrHistoryEntry
4 }
```

`usrHistoryValStatus` OBJECT-TYPE

```
SYNTAX INTEGER {
    valueNotAvailable(1),
    valuePositive(2),
    valueNegative(3)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the validity and sign of the data in the associated instance of `usrHistoryAbsValue`.

If the MIB instance could not be accessed during the sampling interval, then `'valueNotAvailable(1)'` will be returned.

If the sample is valid and the actual value of the sample is greater than or equal to zero, then `'valuePositive(2)'` is

returned.

If the sample is valid and the actual value of the sample is less than zero, 'valueNegative(3)' will be returned. The associated instance of `usrHistoryAbsValue` should be multiplied by -1 to obtain the true sample value."

```
::= { usrHistoryEntry 5 }
```

-- The Probe Configuration Group

--

-- This group controls the configuration of various operating

--

parameters of the probe.

`ControlString` ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used to communicate with a modem or a

serial data switch. A `ControlString` contains embedded commands to control how the device will interact with the remote device through the serial interface. Commands are represented as two-character sequences beginning with the '^' character.

The following commands are recognized by the device (note that command characters are case sensitive):

^s Send string that follows, which is terminated by the next command or the end of string.

^c Delay for the number of seconds that follows. Toss out any data received rather than store it in a buffer for parsing.

^t Set timeout to the value represented by the decimal digits that follow. The default timeout is 20

seconds. Note that this timeout may be overridden by a smaller `serialTimeout` configured for the associated serial interface (see `serialConfigTable`).

^w Wait for the reply string that follows, which is terminated by the next command or the end of string. Partial and case-insensitive matching is applied, i.e., if the reply string (any case combination) is found anywhere in the received string, then the a match is found. If the current timeout elapses without a match, then the remaining control string is ignored.

^! The ^ character.

^d Delay the number of seconds specified by the decimal digits that follow.

^b Send break for the number of milliseconds specified by the decimal digits that follow. If no digits follow, break will be enforced for 250 milliseconds by default.

The following ASCII control characters may be inserted into the '^s' send string or the '^w' reply string:

^@ 0x00
^A 0x01
..
^M 0x0D
..
^Z 0x1A
^[0x1B
^ 0x1C
^] 0x1D
^^ 0x1E
^_ 0x1F

Binary data may also be inserted into the data stream. The control sequence for each byte of binary data is ^0x##, where ## is the hexadecimal representation of the data byte. Two ASCII characters (0-9, a-f, A-F) must follow the '^0x' control prefix. For example, '^0x0D^0x0A' is interpreted as a carriage return followed by a line feed."

SYNTAX OCTET STRING (SIZE (0..255))

probeCapabilities OBJECT-TYPE

SYNTAX BITS {
etherStats(0),
historyControl(1),
etherHistory(2),
alarm(3),
hosts(4),
hostTopN(5),
matrix(6),
filter(7),
capture(8),
event(9),
tokenRingMLStats(10),
tokenRingPStats(11),
tokenRingMLHistory(12),

```

tokenRingPHistory(13),
ringStation(14),
ringStationOrder(15),
ringStationConfig(16),
sourceRouting(17),
protocolDirectory(18),
protocolDistribution(19),
addressMapping(20),
nlHost(21),
nlMatrix(22),
alHost(23),
alMatrix(24),
usrHistory(25),
probeConfig(26)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "An indication of the RMON MIB groups supported
    on at least one interface by this probe."
::= { probeConfig 1 }

```

```

probeSoftwareRev OBJECT-TYPE
SYNTAX    DisplayString (SIZE(0..15))
MAX-ACCESS read-only

```

```

STATUS    current
DESCRIPTION
    "The software revision of this device. This string will have
    a zero length if the revision is unknown."
::= { probeConfig 2 }

```

```

probeHardwareRev
OBJECT-TYPE
SYNTAX    DisplayString (SIZE(0..31))
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "The hardware revision of this device. This string will have
    a zero length if the revision is unknown."
::= { probeConfig 3 }

```

```

probeDateTime OBJECT-TYPE
SYNTAX    OCTET STRING (SIZE (0 | 8 | 11))
MAX-ACCESS read-write
STATUS    current

```

DESCRIPTION

"Probe's current date and time.

field	octets	contents	range
-----	-----	-----	-----
1	1-2	year	0..65536
2	3	month	1..12
3	4	day	1..31
4	5	hour	0..23
5	6	minutes	0..59
6	7	seconds	0..60
		(use 60 for leap-second)	
7	8	deci-seconds	0..9
8	9	direction from UTC	'+' / '-'
9	10	hours from UTC	0..11
10	11	minutes from UTC	0..59

For example, Tuesday May 26, 1992 at 1:30:15 PM
EDT would be displayed as:

1992-5-26,13:30:15.0,-4:0

Note that if only local time is known, then
time zone information (fields 8-10) is not
present, and that if no time information is known, the
null string is returned."

::= { probeConfig 4 }

probeResetControl OBJECT-TYPE

```
SYNTAX  INTEGER {  
    running(1),  
    warmBoot(2),  
    coldBoot(3)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to warmBoot(2) causes the device to
restart the application software with current configuration
parameters saved in non-volatile memory. Setting this

object to coldBoot(3) causes the device to reinitialize
configuration parameters in non-volatile memory to default

values and to restart the application software. When the device is running normally, this variable has a value of running(1)."
::= { probeConfig 5 }

-- The following download objects do not restrict an implementation
-- from implementing additional download mechanisms (controlled in an
-- implementation-specific manner). Further, in the case where the RMON
-- agent shares a processor with other types of systems, the
-- implementation is not required to download those non-RMON functions
-- with this mechanism.

probeDownloadFile OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..127))

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The file name to be downloaded from the TFTP server when a download is next requested via this MIB. This value is set to the zero-length string when no file name has been specified.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 6 }

probeDownloadTFTPServer OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP address of the TFTP server that contains the boot image to load when a download is next requested via this MIB. This value is set to '0.0.0.0' when no IP address has been

specified.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 7 }

probeDownloadAction OBJECT-TYPE

SYNTAX INTEGER {

notDownloading(1),


```

        downloadToPROM(2),
        downloadToRAM(3)
    }
    MAX-ACCESS
read-write
STATUS    deprecated
DESCRIPTION
    "When this object is set to downloadToRAM(3) or
    downloadToPROM(2), the device will discontinue its
    normal operation and begin download of the image specified
    by probeDownloadFile from the server specified by
    probeDownloadTFTPServer using the TFTP protocol.  If
    downloadToRAM(3) is specified, the new image is copied
    to RAM only (the old image remains unaltered in the flash
    EPROM).  If downloadToPROM(2) is specified,
    the new image is written to the flash EPROM
    memory after its checksum has been verified to be correct.
    When the download process is completed, the device will
    warm boot to restart the newly loaded application.
    When the device is not downloading, this object will have
    a value of notDownloading(1).

```

This object has been deprecated, as it has not had enough
 independent implementations to demonstrate
 interoperability to
 meet the requirements of a Draft Standard."
 ::= { probeConfig 8 }

```

probeDownloadStatus OBJECT-TYPE
    SYNTAX    INTEGER {
        downloadSuccess(1),
        downloadStatusUnknown(2),
        downloadGeneralError(3),
        downloadNoResponseFromServer(4),
        downloadChecksumError(5),
        downloadIncompatibleImage(6),
        downloadTftpFileNotFound(7),
        downloadTftpAccessViolation(8)
    }
    MAX-ACCESS read-only

```

```

STATUS    deprecated
DESCRIPTION
    "The status of the last download procedure, if any.  This
    object will have a value of downloadStatusUnknown(2) if no
    download process has been performed.

```

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 9 }

serialConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of serial interface configuration entries. This data will be stored in non-volatile memory and preserved across probe resets or power loss.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 10 }

serialConfigEntry OBJECT-TYPE

SYNTAX SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular serial interface on this device. If the device has no serial interfaces, this table is empty.

The index is composed of the ifIndex assigned to this serial line interface."

INDEX { ifIndex }

::=

{ serialConfigTable 1 }

SerialConfigEntry ::= SEQUENCE {

serialMode INTEGER,

serialProtocol INTEGER,

serialTimeout Integer32,

serialModemInitString ControlString,

serialModemHangUpString ControlString,

serialModemConnectResp DisplayString,

serialModemNoConnectResp DisplayString,

serialDialoutTimeout Integer32,

serialStatus

RowStatus

}

serialMode OBJECT-TYPE

SYNTAX INTEGER {
 direct(1),
 modem(2)
}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of incoming connection to be expected on this
serial interface."

DEFVAL { direct }

::= { serialConfigEntry 1 }

serialProtocol OBJECT-TYPE

SYNTAX INTEGER {
 other(1),
 slip(2),
 ppp(3)
}

MAX-ACCESS read-create

STATUS

deprecated

DESCRIPTION

"The type of data link encapsulation to be used on this
serial interface."

DEFVAL { slip }

::= { serialConfigEntry 2 }

serialTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the Management Station has
initiated the conversation over the serial link. This variable
represents the number of seconds of inactivity allowed before
terminating the connection on this serial interface. Use the
serialDialoutTimeout in the case where the probe has initiated
the connection for the purpose of sending a trap."

DEFVAL { 300 }

::= { serialConfigEntry 3 }

serialModemInitString OBJECT-TYPE

SYNTAX ControlString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that controls how a modem attached to this

serial interface should be initialized. The initialization is performed once during startup and again after each connection is terminated if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^s^MATE0Q0V1X4 S0=1 S2=43^M'."

::= { serialConfigEntry 4 }

serialModemHangUpString OBJECT-TYPE

SYNTAX ControlString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to disconnect a modem connection on this serial interface. This object is only meaningful if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^d2^s+++^d2^sATH0^M^d2'."

::= { serialConfigEntry 5 }

serialModemConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"An ASCII string containing substrings that describe the expected modem connection response code and associated bps rate. The substrings are delimited by the first character in the string, for example:

/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/
CONNECT 4800/4800/CONNECT 9600/9600

will be interpreted as:

response code	bps rate
CONNECT	300
CONNECT 1200	1200
CONNECT 2400	2400
CONNECT 4800	4800
CONNECT 9600	9600

The agent will use the information in this string to adjust the bps rate of this serial interface once a modem connection is established.

A value that is appropriate for a wide variety of modems is:

```
'/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/  
CONNECT 4800/4800/CONNECT 9600/9600/CONNECT 14400/14400/  
CONNECT  
19200/19200/CONNECT 38400/38400/.'  
::= { serialConfigEntry 6 }
```

serialModemNoConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"An ASCII string containing response codes that may be generated by a modem to report the reason why a connection attempt has failed. The response codes are delimited by the first character in the string, for example:

/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/

If one of these response codes is received via this serial interface while attempting to make a modem connection, the agent will issue the hang up command as specified by serialModemHangUpString.

A value that is appropriate for a wide variety of modems is:

```
'/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/.'  
::= { serialConfigEntry 7 }
```

serialDialoutTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the probe initiates the serial connection with the intention of contacting a management station. This variable represents the number of seconds of inactivity allowed before terminating the connection on this serial interface."

DEFVAL { 20 }

```
::= { serialConfigEntry 8 }
```

serialStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConfigEntry.

An entry may not exist in the active state unless all
objects in the entry have an appropriate value."

::= { serialConfigEntry 9 }

netConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of netConfigEntries.

This table has been deprecated, as it has not had enough
independent

implementations to demonstrate interoperability to
meet the requirements of a Draft Standard."

::= { probeConfig 11 }

netConfigEntry OBJECT-TYPE

SYNTAX NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular
network interface on this device. If the device has no network
interface, this table is empty.

The index is composed of the ifIndex assigned to the
corresponding interface."

INDEX { ifIndex }

::= { netConfigTable 1 }

NetConfigEntry ::= SEQUENCE {

netConfigIPAddress IpAddress,

netConfigSubnetMask IpAddress,

netConfigStatus RowStatus

}

netConfigIPAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP address of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on the network, this value must be configured (e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 1 }

netConfigSubnetMask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The subnet mask of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on

the network, this value must be configured

(e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 2 }

netConfigStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this netConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

::= { netConfigEntry 3 }

netDefaultGateway OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP Address of the default gateway. If this value is undefined or unknown, it shall have the value 0.0.0.0."

::= { probeConfig 12 }

-- Trap Destination Table

--

-- This table defines the destination addresses for traps generated

-- from the device. This table maps a community to one or more trap destination entries.

--

-- The same trap will be sent to all destinations specified in the entries that have the same trapDestCommunity as the eventCommunity (as defined by RMON MIB), as long as no access control mechanism (e.g., VACM) prohibits sending to one or more of the destinations. Information in this table will be stored in non-volatile memory.

-- If the device has gone through a hard restart, this information will be reset to its default state.

trapDestTable OBJECT-TYPE

SYNTAX SEQUENCE OF TrapDestEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A list of trap destination entries."

::= { probeConfig 13 }

trapDestEntry OBJECT-TYPE

SYNTAX TrapDestEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This entry includes a destination IP address to which traps are sent for this community."

INDEX { trapDestIndex }

::= { trapDestTable 1 }

TrapDestEntry ::= SEQUENCE {

trapDestIndex Integer32,

trapDestCommunity OCTET STRING,

trapDestProtocol INTEGER,

trapDestAddress OCTET STRING,


```

trapDestOwner      OwnerString,
trapDestStatus     RowStatus
}

```

```

trapDestIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..65535)
    MAX-ACCESS not-accessible
    STATUS      deprecated
    DESCRIPTION
        "A value that uniquely identifies this trapDestEntry."
    ::= { trapDestEntry 1 }

```

```

trapDestCommunity OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..127))
    MAX-ACCESS read-create
    STATUS      deprecated
    DESCRIPTION
        "A community to which this destination address belongs.
        This entry is associated with any eventEntries in the RMON
        MIB whose value of eventCommunity is equal to the value of
        this object. Every time an associated event entry sends a

        trap due to an event, that trap will be sent to each

```

address in the trapDestTable with a trapDestCommunity equal to eventCommunity, as long as no access control mechanism precludes it (e.g., VACM).

```

        This object may not be modified if the associated
        trapDestStatus object is equal to active(1)."
    ::= { trapDestEntry 2 }

```

```

trapDestProtocol OBJECT-TYPE
    SYNTAX      INTEGER {
        ip(1),
        ipx(2)
    }
    MAX-ACCESS read-create
    STATUS      deprecated
    DESCRIPTION
        "The protocol with which this trap is to be sent."
    ::= { trapDestEntry 3 }

```

```

trapDestAddress OBJECT-TYPE
    SYNTAX      OCTET STRING
    MAX-ACCESS read-create

```

STATUS deprecated

DESCRIPTION

"The destination address for traps on behalf of this entry.

If the associated trapDestProtocol object is equal to ip(1),
the encoding of this object is the same as the snmpUDPAddress
textual

convention in RFC 3417, 'Transport Mappings for the

Simple Network Management Protocol (SNMP)' [RFC3417]:

-- for a SnmpUDPAddress of length 6:

--

-- octets contents encoding

-- 1-4 IP-address network-byte order

-- 5-6 UDP-port network-byte order

If the associated trapDestProtocol object is equal to ipx(2),
the encoding of this object is the same as the snmpIPXAddress
textual convention in RFC 3417, 'Transport Mappings for the
Simple Network Management Protocol (SNMP)' [RFC3417]:

-- for a SnmpIPXAddress of length 12:

--

-- octets contents encoding

-- 1-4 network-number network-byte order

-- 5-10 physical-address network-byte order

-- 11-12 socket-number network-byte order

This object may not be modified if the associated

trapDestStatus object

is equal to active(1)."

::= { trapDestEntry 4 }

trapDestOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entity that configured this entry and is
therefore using the resources assigned to it."

::= { trapDestEntry 5 }

trapDestStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this trap destination entry.

An entry may not exist in the active state unless all
objects in the entry have an appropriate value."

::= { trapDestEntry 6 }

-- Serial Connection Table

--

-- The device may communicate with a management station using
-- SLIP. In order for the device to send traps via SLIP, it must
-- be able to initiate a connection over the serial interface. The
-- serialConnectionTable stores the parameters for such connection
-- initiation.

serialConnectionTable OBJECT-TYPE

SYNTAX SEQUENCE

OF SerialConnectionEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A list of serialConnectionEntries.

This table has been deprecated, as it has not had enough
independent implementations to demonstrate interoperability
to meet the requirements of a Draft Standard."

::= { probeConfig 14 }

serialConnectionEntry OBJECT-TYPE

SYNTAX SerialConnectionEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Configuration for a SLIP link over a serial line."

INDEX { serialConnectIndex }

::= { serialConnectionTable 1 }

SerialConnectionEntry ::= SEQUENCE {

serialConnectIndex Integer32,

serialConnectDestIpAddress IpAddress,

serialConnectType INTEGER,

serialConnectDialString ControlString,

serialConnectSwitchConnectSeq ControlString,

serialConnectSwitchDisconnectSeq ControlString,

serialConnectSwitchResetSeq ControlString,

serialConnectOwner OwnerString,

serialConnectStatus RowStatus
}

serialConnectIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A value that uniquely identifies this serialConnection
entry."

::= { serialConnectionEntry 1 }

serialConnectDestIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP Address that can be reached at the other end of this
serial connection.

This object may not be modified if the associated
serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 2 }

serialConnectType OBJECT-TYPE

SYNTAX INTEGER {

 direct(1),
 modem(2),
 switch(3),
 modemSwitch(4)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of outgoing connection to be made. If this object
has the value direct(1), then a direct serial connection
is assumed. If this object has the value modem(2),
then serialConnectDialString will be used to make a modem
connection. If this object has the value switch(3),
then serialConnectSwitchConnectSeq will be used to establish
the connection over a serial data switch, and
serialConnectSwitchDisconnectSeq will be used to terminate
the connection. If this object has the value

modem-switch(4), then a modem connection will be made first, followed by the switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

DEFVAL { direct }

::= { serialConnectionEntry 3 }

serialConnectDialString OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to dial the phone number in order to establish a modem connection. The string should include the dialing prefix and suffix. For example: '^s^MATD9,888-1234^M' will instruct the Probe to send a carriage return, followed by the dialing prefix 'ATD', the phone number '9,888-1234', and a carriage return as the dialing suffix.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 4 }

serialConnectSwitchConnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to establish a data switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 5 }

serialConnectSwitchDisconnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to terminate a data switch connection.

This object may not be modified if the associated
serialConnectStatus object is equal to active(1)."
::= { serialConnectionEntry 6 }

serialConnectSwitchResetSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to reset a data
switch in the event of a timeout.

This object may not be modified if the associated
serialConnectStatus object is equal to active(1)."
::= { serialConnectionEntry 7 }

serialConnectOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entity that configured this entry and is
therefore using the resources assigned to it."

::= { serialConnectionEntry 8 }

serialConnectStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConnectionEntry.

If the manager attempts to set this object to active(1) when
the serialConnectType is set to modem(2) or modem-switch(4)
and the serialConnectDialString is a zero-length string or
cannot be correctly parsed as a ConnectString, the set
request will be rejected with badValue(3).

If the manager attempts to set this object to active(1) when
the serialConnectType is set to switch(3) or modem-switch(4)
and the serialConnectSwitchConnectSeq,
the serialConnectSwitchDisconnectSeq, or

the serialConnectSwitchResetSeq is a zero-length string
or cannot be correctly parsed as a ConnectString,

the set

request will be rejected with badValue(3).

An entry may not exist in the active state unless all
objects in the entry have an appropriate value."

::= { serialConnectionEntry 9 }

--

-- Extensions to the RMON 1 MIB for RMON 2 devices

--

-- These extensions include the standard LastCreateTime Textual

-- Convention for all control tables, as well as an augmentation of

-- the filter entry that provides variable-length offsets into

-- packets.

-- Each of the following, except for filterDroppedFrames, is a

-- read-only object which, if implemented, automatically appears when

-- the RMON1 row it is associated with is created.

etherStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF EtherStats2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { statistics 4 }

etherStats2Entry OBJECT-TYPE

SYNTAX EtherStats2Entry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { etherStatsEntry }

::= { etherStats2Table 1 }

EtherStats2Entry ::= SEQUENCE {

etherStatsDroppedFrames Counter32,

etherStatsCreateTime LastCreateTime

}

etherStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { etherStats2Entry
1 }
```

etherStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

```
::= { etherStats2Entry 2 }
```

historyControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HistoryControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

```
::= { history 5 }
```

historyControl2Entry OBJECT-TYPE

SYNTAX HistoryControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { historyControlEntry }

```
::= { historyControl2Table 1 }
```

HistoryControl2Entry ::= SEQUENCE {

historyControlDroppedFrames Counter32

}

historyControlDroppedFrames

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { historyControl2Entry 1 }

hostControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HostControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { hosts 4 }

hostControl2Entry OBJECT-TYPE

SYNTAX HostControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { hostControlEntry }

::= { hostControl2Table 1 }

HostControl2Entry ::= SEQUENCE {

hostControlDroppedFrames Counter32,

hostControlCreateTime LastCreateTime

}

hostControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the

probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."
::= { hostControl2Entry 1 }

hostControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { hostControl2Entry 2 }

matrixControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF MatrixControl2Entry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { matrix 4 }

matrixControl2Entry OBJECT-TYPE

SYNTAX MatrixControl2Entry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { matrixControlEntry }

```
::= { matrixControl2Table 1 }
```

```
MatrixControl2Entry ::= SEQUENCE {  
    matrixControlDroppedFrames Counter32,  
    matrixControlCreateTime LastCreateTime  
}
```

matrixControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { matrixControl2Entry 1 }
```

matrixControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of sysUpTime when this control entry was last

activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

```
::= { matrixControl2Entry 2 }
```

channel2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Channel2Entry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

```
::= { filter 3 }
```

channel2Entry OBJECT-TYPE

SYNTAX Channel2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { channelEntry }

::= { channel2Table 1 }

Channel2Entry ::= SEQUENCE {

channelDroppedFrames Counter32,

channelCreateTime LastCreateTime

}

channelDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents,

but

that the probe chose not to count for this entry for
whatever reason. Most often, this event occurs when the
probe is out of some resources and decides to shed load from
this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."

::= { channel2Entry 1 }

channelCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last
activated. This can be used by the management station to
ensure that the table has not been deleted and recreated
between polls."

::= { channel2Entry 2 }

tokenRingMLStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingMLStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 5 }

tokenRingMLStats2Entry OBJECT-TYPE

SYNTAX TokenRingMLStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { tokenRingMLStatsEntry }

::= { tokenRingMLStats2Table 1 }

TokenRingMLStats2Entry ::= SEQUENCE {

tokenRingMLStatsDroppedFrames Counter32,

tokenRingMLStatsCreateTime LastCreateTime

}

tokenRingMLStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe

chose not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the

exact number of frames dropped."
::= { tokenRingMLStats2Entry 1 }

tokenRingMLStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { tokenRingMLStats2Entry 2 }

tokenRingPStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 6 }

tokenRingPStats2Entry OBJECT-TYPE

SYNTAX TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { tokenRingPStatsEntry }

::= { tokenRingPStats2Table 1 }

TokenRingPStats2Entry ::= SEQUENCE {

tokenRingPStatsDroppedFrames Counter32,

tokenRingPStatsCreateTime LastCreateTime

}

tokenRingPStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe

and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { tokenRingPStats2Entry 1 }

tokenRingPStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { tokenRingPStats2Entry 2 }

ringStationControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF RingStationControl2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 7 }

ringStationControl2Entry OBJECT-TYPE

SYNTAX RingStationControl2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { ringStationControlEntry }

::= { ringStationControl2Table 1 }

RingStationControl2Entry ::= SEQUENCE {
 ringStationControlDroppedFrames Counter32,
 ringStationControlCreateTime LastCreateTime
}

ringStationControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe chose not to

count for this entry for

whatever reason. Most often, this event occurs when the
probe is out of some resources and decides to shed load from
this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."

::= { ringStationControl2Entry 1 }

ringStationControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last
activated. This can be used by the management station to

ensure that the table has not been deleted and recreated
between polls."

::= { ringStationControl2Entry 2 }

sourceRoutingStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 8 }

sourceRoutingStats2Entry OBJECT-TYPE

SYNTAX SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { sourceRoutingStatsEntry }

::= { sourceRoutingStats2Table 1 }

SourceRoutingStats2Entry ::= SEQUENCE {

sourceRoutingStatsDroppedFrames Counter32,

sourceRoutingStatsCreateTime LastCreateTime

}

sourceRoutingStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose

not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { sourceRoutingStats2Entry 1 }

sourceRoutingStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to

ensure that the table has not been deleted and recreated
between polls."
::= { sourceRoutingStats2Entry 2 }

filter2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Filter2Entry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Provides
a variable-length packet filter feature to the
RMON-1 filter table."
::= { filter 4 }

filter2Entry OBJECT-TYPE

SYNTAX Filter2Entry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Provides a variable-length packet filter feature to the
RMON-1 filter table."
AUGMENTS { filterEntry }
::= { filter2Table 1 }

Filter2Entry ::= SEQUENCE {
filterProtocolDirDataLocalIndex Integer32,
filterProtocolDirLocalIndex Integer32
}

filterProtocolDirDataLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"When this object is set to a non-zero value, the filter that
it is associated with performs the following operations on
every packet:

- 1) If the packet doesn't match the protocol directory entry
identified by this object, discard the packet and exit
(i.e., discard the packet if it
is not of the identified
protocol).
- 2) If the associated filterProtocolDirLocalIndex is non-zero
and the packet doesn't match the protocol directory

entry identified by that object, discard the packet and exit.

- 3) If the packet matches, perform the regular filter algorithm as if the beginning of this named protocol is the beginning of the packet, potentially applying the filterOffset value to move further into the packet."

DEFVAL { 0 }

::= { filter2Entry 1 }

filterProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that it is associated with will discard the packet if the packet doesn't match this protocol directory entry."

DEFVAL { 0 }

::= { filter2Entry 2 }

-- Conformance Macros

rmon2MIBCompliances OBJECT

IDENTIFIER ::= { rmonConformance 1 }

rmon2MIBGroups OBJECT IDENTIFIER ::= { rmonConformance 2 }

rmon2MIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the RMON2 MIB"

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,
protocolDistributionGroup,
addressMapGroup,
nlHostGroup,
nlMatrixGroup,
usrHistoryGroup,
probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

SYNTAX INTEGER {
nlMatrixTopNPkts(1),
nlMatrixTopNOctets(2)
}

DESCRIPTION

"Conformance to RMON2 requires only support for these values of nlMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is appropriate for systems that implement the Ethernet group of RMON [RFC2819]."

::= { rmon2MIBCompliances 1 }

rmon2MIBApplicationLayerCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the RMON2 MIB with Application-Layer Enhancements."

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,
protocolDistributionGroup,
addressMapGroup,
nlHostGroup,
nlMatrixGroup,
alHostGroup,
alMatrixGroup,
usrHistoryGroup,
probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

SYNTAX INTEGER {
nlMatrixTopNPkts(1),
nlMatrixTopNOctets(2)
}

DESCRIPTION

"Conformance to RMON2 requires only support for these values of nlMatrixTopNControlRateBase."

OBJECT alMatrixTopNControlRateBase

SYNTAX INTEGER {
alMatrixTopNTerminalsPkts(1),
alMatrixTopNTerminalsOctets(2),
alMatrixTopNAllPkts(3),
alMatrixTopNAllOctets(4)
}

DESCRIPTION

"Conformance to RMON2 requires only support for these

values of alMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems

that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is appropriate for systems that implement the Ethernet group of RMON [RFC2819]."

::= { rmon2MIBCompliances 2 }

protocolDirectoryGroup OBJECT-GROUP

OBJECTS { protocolDirLastChange,
protocolDirLocalIndex, protocolDirDescr,
protocolDirType, protocolDirAddressMapConfig,
protocolDirHostConfig, protocolDirMatrixConfig,
protocolDirOwner, protocolDirStatus }

STATUS current

DESCRIPTION

"Lists the inventory of protocols the probe has the capability of monitoring and allows the addition, deletion, and configuration of entries in this list."

::= { rmon2MIBGroups 1 }

protocolDistributionGroup OBJECT-GROUP

OBJECTS { protocolDistControlDataSource,
protocolDistControlDroppedFrames,
protocolDistControlCreateTime,
protocolDistControlOwner, protocolDistControlStatus,
protocolDistStatsPkts, protocolDistStatsOctets }

STATUS current

DESCRIPTION

"Collects the relative amounts of octets and packets for the different protocols detected on a network segment."

::= { rmon2MIBGroups 2 }

addressMapGroup OBJECT-GROUP

OBJECTS { addressMapInserts, addressMapDeletes,
addressMapMaxDesiredEntries,

```

        addressMapControlDataSource,
        addressMapControlDroppedFrames,
        addressMapControlOwner, addressMapControlStatus,
        addressMapPhysicalAddress,
        addressMapLastChange }
STATUS current

```

DESCRIPTION

"Lists MAC address to network address bindings discovered by the probe and what interface they were last seen on."

```
::= { rmon2MIBGroups 3 }
```

nlHostGroup OBJECT-GROUP

```

OBJECTS { hlHostControlDataSource,
          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):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-MIB

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

SNA-NAU-MIB DEFINITIONS ::= BEGIN

```

-- This MIB module contains objects necessary
-- for management of the following SNA devices: PU types 1.0, 2.0, 2.1
-- and LU types 0, 1, 2, 3, 4, 7. It also contains generic objects
-- which can be used to manage LU 6.2.

-- Naming conventions in this document:
-- The following names are used in object descriptors according to
-- SNA conventions.
-- The name 'PU' or 'Node' is used to describe Node type 1.0, 2.0 or
-- 2.1.
-- The name 'LU' is used to describe Logical Unit of type 0,1,2,3,
-- 4,7 or 6.2.

```

IMPORTS

```

    DisplayString, RowStatus, TimeStamp, InstancePointer
    FROM SNMPv2-TC

```

```

    Counter32, Gauge32, Integer32, mib-2,
    OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE
    FROM SNMPv2-SMI

```

```

    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF;

```

snanauMIB MODULE-IDENTITY

```

    LAST-UPDATED "9405120900Z"

```

```

    ORGANIZATION "IETF SNA NAU MIB Working Group"
    CONTACT-INFO

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DESCRIPTION

"This is the MIB module for objects used to
manage
SNA devices."
::= { mib-2 34 }

-- The SNANAU MIB module contains an objects part and a conformance part.
-- Objects are organized into the following groups:
-- (1)snaNode group,
-- (2)snaLU group,
-- (3)snaMgtTools group.

snanauObjects OBJECT IDENTIFIER ::= { snanauMIB 1 }

snaNode OBJECT IDENTIFIER ::= { snanauObjects 1 }

snaLu OBJECT IDENTIFIER ::= { snanauObjects 2 }

snaMgtTools OBJECT IDENTIFIER ::= { snanauObjects 3 }

-- *****
-- snaNode group
--
-- It contains Managed Objects related to any type of Node and
-- some specific objects for Node Type 2.0.
-- *****

```
-- *****
-- The following table contains generic Node configuration
-- parameters.
-- *****
```

snaNodeAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects which describe the configuration parameters for an SNA Node. Link specific configuration objects are contained in a separate MIB module (e.g., SNA DLC MIB) corresponding to the link type.
The table snaNodeAdminLinkTable contains objects which identify the relationship between node instances and link instances.

The entries (i.e., rows) in this table can be created by either an Agent or a Management Station. The Management Station can do this through setting the appropriate value in the snaNodeAdminRowStatus.

The snaNodeAdminRowStatus object describes the status of an entry and is used to change the status of an entry. The entry is deleted by an Agent based on the value of the snaNodeAdminRowStatus.

The snaNodeAdminState object describes the desired operational state of a Node and is used to change the operational state of a Node. For example, such information may be obtained from a configuration file.

How an Agent or a Management Station obtains the initial value of each object at creation time is an implementation specific issue.

For each entry in this table, there is a corresponding entry in the snaNodeOperTable.
While the objects in this table describe the desired or configured operational values of the SNA Node, the actual runtime values are contained in snaNodeOperTable."

::= { snaNode 1 }

snaNodeAdminEntry OBJECT-TYPE

SYNTAX SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains the configuration parameters for one SNA Node instance. The objects in the entry have read-create access.

An entry can be created, modified or deleted. The object snaNodeAdminRowStatus is used (i.e., set) to create or delete a row entry."

INDEX { snaNodeAdminIndex }

::= { snaNodeAdminTable 1 }

SnaNodeAdminEntry ::= SEQUENCE {

snaNodeAdminIndex

Integer32,

snaNodeAdminName

DisplayString,

snaNodeAdminType

INTEGER,

snaNodeAdminXidFormat

INTEGER,

snaNodeAdminBlockNum

DisplayString,

snaNodeAdminIdNum

DisplayString,

snaNodeAdminEnablingMethod

INTEGER,

snaNodeAdminLuTermDefault

INTEGER,

snaNodeAdminMaxLu

Integer32,

snaNodeAdminHostDescription

DisplayString,

snaNodeAdminStopMethod

INTEGER,

snaNodeAdminState

INTEGER,

snaNodeAdminRowStatus

RowStatus

}

snaNodeAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index used to uniquely identify each Node instance.

If an Agent creates the entry, then it will assign this number otherwise a Management Station generates a random number when it reserves the entry for creation."

::= { snaNodeAdminEntry 1 }

snaNodeAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired name of the Node for use during Node activation.

In Type 2.1 networks, this is a fully-qualified name, meaning that the Node name is preceded by the NetId (if present) with a period as the delimiter.

A write operation to this object will not change the operational value reflected in snaNodeOperName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 2 }

snaNodeAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),
pu10(2),
pu20(3),
t21len(4),
endNode(5),
networkNode(6)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of SNA Node.

A write operation to this object will not change the operational value reflected

in snaNodeOperType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 3 }

snaNodeAdminXidFormat OBJECT-TYPE

SYNTAX INTEGER {
 format0(1),
 format1(2),
 format3(3)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of XID format used for this Node. Note that there is no format type 2.

A write operation to this object will not change the operational value reflected in snaNodeOperAdminXidFormat until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 4 }

snaNodeAdminBlockNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(3))

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The value indicates the block number for this Node instance. It is the first 3 hexadecimal digits of the SNA Node id.

A write operation to this object will not change the operational value reflected in snaNodeOperBlockNum until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 5 }

snaNodeAdminIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(5))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the ID number for this Node instance. This is the last 5 hexadecimal digits of the SNA Node id.

A write operation to this object will not change the operational value reflected in snaNodeOperIdNum until the Node has

been re-activated (e.g., after the next initialization of the SNA services)."

```
::= { snaNodeAdminEntry 6 }
```

snaNodeAdminEnablingMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),
startup (2),
demand (3),
onlyMS (4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates how the Node should be activated for the first time.

The values have the following meanings:

other (1) - may be used for proprietary methods not listed in this enumeration,

startup (2) - at SNA services' initialization time (this is the default),

demand (3) - only when LU is requested by application,
or

onlyMS (4) - by a Management Station only.

A write operation

to this object may immediately

change the operational value reflected in snaNodeOperEnablingMethod depending on the Agent implementation. If the Agent implementation accepts immediate changes, then the behavior of the Node changes immediately and not only after the next system startup of the SNA services.

An immediate change may only apply when the current value 'demand (3)' is changed to 'onlyMS (4)' and vice versa."

```
::= { snaNodeAdminEntry 7 }
```

snaNodeAdminLuTermDefault OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),
termself (2),
rshutd (3),
poweroff(4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired default method used to deactivate LUs for this Node
For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU

session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

The default behavior indicated by the value of this object may be overridden for an LU instance. The override is performed by setting the snaLuAdminTerm object instance in the snaLuAdminTable to the desired value.

A write operation to this object may immediately change the operational value reflected in snaNodeOperLuTermDefault depending on the Agent implementation."

::= { snaNodeAdminEntry 8 }

snaNodeAdminMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of LUs that may be activated for this Node. For PU2.1, this object refers to the number of dependent LUs.

A write operation to this object will not change the operational value reflected in snaNodeOperMaxLu until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 9 }

snaNodeAdminHostDescription OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value identifies the remote host associated with this Node.

Since SSCP Id's may not be unique across hosts, the host description is required to uniquely identify the SSCP.

This object

is only applicable to PU2.0 type

Nodes. If the remote host is unknown, then the value is the null string.

A write operation to this object may immediately change the operational value reflected in snaNodeOperHostDescription depending on the Agent implementation."

::= { snaNodeAdminEntry 10 }

snaNodeAdminStopMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),

normal (2),

immed (3),

force (4)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired method to be used by the Agent to stop a Node (i.e., change the Node's operational state to inactive(1)).

The values have the following meaning:

other (1) - used for proprietary

methods not listed in this enumeration.

normal(2) - deactivate only when there is no more

activity on this Node (i.e., all data flows

have been completed and all sessions
 have been terminated).
 immed(3) - deactivate immediately regardless of
 current activities on this Node. Wait for
 deactivation responses (from remote Node)
 before changing the Node state to inactive.
 force(4) - deactivate immediately regardless of
 current activities on this Node. Do not wait
 for deactivation responses (from remote Node)
 before changing the Node state to inactive.

A write operation to this object may immediately
 change the operational value reflected
 in snaNodeOperStopMethod

depending

on the Agent implementation."

::= { snaNodeAdminEntry 11 }

snaNodeAdminState OBJECT-TYPE

SYNTAX INTEGER {
 inactive (1),
 active (2)
 }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired operational
 state of the SNA Node. This object is used
 by the Management Station to
 activate or deactivate the Node.

If the current value in snaNodeOperState is
 'active (2)', then setting this object to
 'inactive (1)' will initiate the Node shutdown
 process using the method indicated
 by snaNodeOperStopMethod.

If the current value in snaNodeOperState is
 'inactive (1)', then setting this object to
 'active (2)'

will initiate the

Node's activation.

A Management Station can always set this object to
 'active (2)' irrespective of the value in the
 snaOperEnablingMethod."

::= { snaNodeAdminEntry 12 }

snaNodeAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaNodeAdminTable following the RowStatus textual convention.

Upon successful creation of the row, an Agent automatically creates a corresponding entry in the snaNodeOperTable with snaNodeOperState equal to 'inactive (1)'.

Row deletion can be Management Station or Agent initiated:

(a) The Management

Station can set the value to

'destroy (6)' only when the value of snaNodeOperState of this Node instance is 'inactive (1)'. The Agent will then delete the rows corresponding to this Node instance from the snaNodeAdminTable and the snaNodeOperTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a default period of 5 minutes.

(c) All rows with the snaNodeAdminRowStatus object's value of 'notReady (3)' will be removed upon the next initialization of the SNA services."

::= { snaNodeAdminEntry 13 }

-- *****

-- The following object is updated when there is a change to

-- the value of any object in the snaNodeAdminTable.

-- *****

snaNodeAdminTableLastChange

OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the timestamp (e.g., the Agent's sysUpTime value) of the last change made to any object in the snaNodeAdminTable, including row deletions/additions (e.g., changes to

snaNodeAdminRowStatus values).

This object can be used to reduce frequent retrievals of the snaNodeAdminTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node configuration information has been changed. Only then will the Management Station retrieve the entire table."

```
::= { snaNode
2 }
```

```
-- *****
-- The following table contains Node operational parameters.
-- *****
```

snaNodeOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the dynamic parameters which have read-only access. These objects reflect the actual status of the Node. The entries in this table cannot be created or modified by a Management Station.

This table augments the snaNodeAdminTable."

```
::= { snaNode 3 }
```

snaNodeOperEntry OBJECT-TYPE

SYNTAX SnaNodeOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry contains parameters which describe the state of

one Node. The entries are created by the

Agent. They have read-only access."

AUGMENTS { snaNodeAdminEntry }

```
::= { snaNodeOperTable 1 }
```

SnaNodeOperEntry ::= SEQUENCE {

snaNodeOperName

DisplayString,

snaNodeOperType

INTEGER,

```

snaNodeOperXidFormat
    INTEGER,
snaNodeOperBlockNum
    DisplayString,
snaNodeOperIdNum
    DisplayString,
snaNodeOperEnablingMethod
    INTEGER,
snaNodeOperLuTermDefault
    INTEGER,
snaNodeOperMaxLu
    Integer32,
snaNodeOperHostDescription
    DisplayString,
snaNodeOperStopMethod
    INTEGER,
snaNodeOperState
    INTEGER,
snaNodeOperHostSscpId
    OCTET STRING,
snaNodeOperStartTime
    TimeStamp,
snaNodeOperLastStateChange
    TimeStamp,
snaNodeOperActFailures
    Counter32,
snaNodeOperActFailureReason
    INTEGER
}

```

snaNodeOperName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current name of the Node.

In Type 2.1 networks, this

is a fully-qualified name, meaning that the Node name

is preceded by the NetId (if present) with a period

as the delimiter."

::= { snaNodeOperEntry 1 }

snaNodeOperType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

pu10(2),

pu20(3),

t21LEN(4),

```

        endNode(5),
        networkNode(6)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the current type of the Node."
::= { snaNodeOperEntry 2 }

```

snaNodeOperXidFormat OBJECT-TYPE

```

SYNTAX INTEGER {
    format0 (1),
    format1 (2),
    format3 (3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the type of XID format currently
    used for this Node.
    Note that there is no format type 2."
::= { snaNodeOperEntry 3 }

```

snaNodeOperBlockNum OBJECT-TYPE

```

SYNTAX DisplayString (SIZE(3))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the block number for this Node
    instance. It is the first 3 hexadecimal digits
    of the SNA Node id."
::= { snaNodeOperEntry 4 }

```

snaNodeOperIdNum OBJECT-TYPE

```

SYNTAX DisplayString (SIZE(5))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the ID number for this Node
    instance. This is the last 5 hexadecimal digits of
    the SNA Node id."
::= { snaNodeOperEntry 5 }

```

snaNodeOperEnablingMethod OBJECT-TYPE

```

SYNTAX INTEGER {
    other (1),
    startup (2),
    demand (3),

```

```

        onlyMS (4)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value indicates how the Node is activated for
    the first time.
    The values have the following meanings:
        other (1) - not at boot time, LU activation
        or by a Management Station;
        startup (2) - at SNA services' initialization
        time (this is the default),

demand (3) - only when LU is requested by
        application,
        onlyMS (4) - by a network Management Station
        only."
::= { snaNodeOperEntry 6 }

```

snaNodeOperLuTermDefault OBJECT-TYPE

```

SYNTAX INTEGER {
    unbind (1),
    termself (2),
    rshutd (3),
    poweroff (4)
}

```

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

"The value identifies the default method used to deactivate LUs for this Node.
For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform

the

remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on

the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

This object describes the default behavior for this Node; however, it is possible that for a specific LU the behavior indicated by the snaLuOperTerm object is different."

::= { snaNodeOperEntry 7 }

snaNodeOperMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current, maximum number of LUs that are activated for this Node. For PU2.1, this object refers to the number of dependent LUs."

::= { snaNodeOperEntry 8 }

snaNodeOperHostDescription OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the remote host currently associated with this Node.
Since SSCP Id's may not be unique across hosts, the

host description

is required to uniquely identify the SSCP."

::= { snaNodeOperEntry 9 }

snaNodeOperStopMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),

normal (2),

immed (3),

force (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current Node shutdown

method to be used by the Agent to stop the Node.
When the Agent changes the Node's state to 'inactive (1)', the Agent must use the shutdown method indicated by this object.

The values have the following meaning:

other (1) - proprietary method not listed in this enumeration
normal(2) - deactivate only when there is no more activity on this Node (i.e., all data flows have been completed and all sessions have been terminated).
immed(3) - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.
force(4) - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

Note that a write operation to `snaNodeAdminOperStopMethod` may immediately change the value of `snaNodeOperStopMethod` depending on the Agent implementation."

::= { `snaNodeOperEntry` 10 }

`snaNodeOperState` OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),
active (2),
waiting (3),
stopping (4)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Node.

The values have the following meanings:

inactive (1), a row representing the Node has been created in the AdminTable and, the Node is ready for activation -or- an active Node has been stopped -or- a waiting Node has returned to the inactive state.

waiting (3), a request to have the Node activated
has been issued, and the Node is pending
activation.
active (2), the Node is ready and operating.
stopping (4), the request to stop the Node has
been
issued while the StopMethod normal
or immediate is used."
::= { snaNodeOperEntry 11 }

snaNodeOperHostSscpId OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..6))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current SSCP Id
associated with the Node. This object is only
applicable to PU 2.0s. If the Node
is not a PU 2.0 type, then this object contains a
zero length string."

::= { snaNodeOperEntry 12 }

snaNodeOperStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g, the Agent's sysUpTime value)
at the Node activation."

::= { snaNodeOperEntry 13 }

snaNodeOperLastStateChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)
at the last state change of the Node."

::= { snaNodeOperEntry 14 }

snaNodeOperActFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the number of failed Node
activation attempts."

::= { snaNodeOperEntry 15 }

snaNodeOperActFailureReason OBJECT-TYPE

SYNTAX INTEGER {

other (1),
linkFailure (2),
noResources (3),
badConfiguration (4),
internalError (5)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the reason for the activation failure. The value 'other (1)' indicates a reason not

listed in the enumeration. This object

will be sent in the trap snaNodeActFailTrap."

::= { snaNodeOperEntry 16 }

-- *****

-- The following object is updated when there is a change to

-- the value of snaNodeOperState in any row or a row is

-- added/deleted from the snaNodeOperTable via the snaNodeAdminTable.

-- *****

snaNodeOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) at the last change made to any object in the snaNodeOperTable, including row deletions/additions made as a result of changes to the snaNodeAdminRowStatus object.

This object can be used to reduce frequent retrievals

of the snaNodeOperTable by a Management

Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node operational information has been changed. Only then will the Management Station retrieve the entire table."

::= { snaNode 4 }

```
-- *****
-- The following table contains PU 2.0 statistics dynamic parameters.
-- *****
```

snaPu20StatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaPu20StatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the dynamic parameters which have read-only access. The entries in this table correspond

to PU 2.0 entries in the snaNodeOperTable

and cannot be created by a Management Station."

::= { snaNode 5 }

snaPu20StatsEntry OBJECT-TYPE

SYNTAX SnaPu20StatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry contains parameters which describe the statistics for one PU 2.0. They have read-only access.

The counters represent traffic for all kinds of sessions: LU-LU, SSCP-PU, SSCP-LU.

Each Node of PU Type 2.0 from the snaNodeAdminTable has one entry in this table and the index used here has the same value as snaNodeAdminIndex of that PU. The entry is created by the Agent."

INDEX { snaNodeAdminIndex }

::= { snaPu20StatsTable 1 }

SnaPu20StatsEntry ::= SEQUENCE {

snaPu20StatsSentBytes

Counter32,

snaPu20StatsReceivedBytes

Counter32,

snaPu20StatsSentPius

Counter32,

snaPu20StatsReceivedPius

Counter32,

snaPu20StatsSentNegativeResps

Counter32,

snaPu20StatsReceivedNegativeResps

```

        Counter32,
snaPu20StatsActLus
        Gauge32,
snaPu20StatsInActLus
        Gauge32,
snaPu20StatsBindLus
        Gauge32
    }

```

snaPu20StatsSentBytes OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes sent by this Node."
::= { snaPu20StatsEntry 1 }

```

snaPu20StatsReceivedBytes OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes received by this Node."
::= { snaPu20StatsEntry
2 }

```

snaPu20StatsSentPius OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of PIUs sent by this Node."
::= { snaPu20StatsEntry 3 }

```

snaPu20StatsReceivedPius OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of PIUs received by this Node."
::= { snaPu20StatsEntry 4 }

```

snaPu20StatsSentNegativeResps OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of negative responses sent

```

```

        by this Node."
    ::= { snaPu20StatsEntry 5 }

snaPu20StatsReceivedNegativeResps OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of negative responses received

        by this Node."
    ::= { snaPu20StatsEntry 6 }

snaPu20StatsActLus OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of LUs on this PU which have
        received and responded to ACTLU from the host."
    ::= { snaPu20StatsEntry 7 }

snaPu20StatsInActLus OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of LUs on this PU which have
        not received an ACTLU from the host. This is
        possible if the number of configured LUs exceeds
        that on the host."
    ::= { snaPu20StatsEntry 8 }

snaPu20StatsBindLus OBJECT-TYPE
    SYNTAX Gauge32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of LUs on this PU which have
        received and acknowledged
        a BIND request from the
        host."
    ::= { snaPu20StatsEntry 9 }

-- *****
-- The following table contains the association between Nodes and
-- link identifiers.
-- It is used for configuration purposes.

```

-- *****

snaNodeLinkAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the references to link specific tables. If a Node is configured for multiple links, then the Node will have multiple entries in this table.

The entries in this table can be generated initially, after initialization of SNA service, by the Agent which uses information from Node configuration file.

Subsequent modifications of parameters, creation of new Nodes link entries and deletion of entries is possible.
The modification to this table can be saved in the Node configuration file for the next initialization of SNA service, but the mechanism for this function is not defined here."

::= { snaNode 6 }

snaNodeLinkAdminEntry OBJECT-TYPE

SYNTAX SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entry contains the configuration information that associates a Node instance to one link instance.

The objects in the entry have read-create access.

Entry can be created, modified or deleted.

The object snaNodeLinkAdminRowStatus is used (set) to create or delete an entry.

The object

snaNodeLinkAdminSpecific can be set later, after the entry has been created."

INDEX { snaNodeAdminIndex,
snaNodeLinkAdminIndex }

::= { snaNodeLinkAdminTable 1 }

SnaNodeLinkAdminEntry ::= SEQUENCE {

snaNodeLinkAdminIndex

Integer32,

snaNodeLinkAdminSpecific

InstancePointer,


```

snaNodeLinkAdminMaxPiu
    Integer32,
snaNodeLinkAdminRowStatus
    RowStatus
}

```

snaNodeLinkAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value is used to index the instances of objects.

If an Agent creates the entry, then it will assign

this number otherwise a Management Station

generates a random number when it reserves the

entry for creation."

::=

{ snaNodeLinkAdminEntry 1 }

snaNodeLinkAdminSpecific OBJECT-TYPE

SYNTAX InstancePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value points to the row in the table

containing information on the link instance.

(e.g., the sdlcLSAdminTable of

the SNA DLC MIB module)."

::= { snaNodeLinkAdminEntry 2 }

snaNodeLinkAdminMaxPiu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the maximum number of octets

that can be exchanged by this Node in one

Path Information Unit (PIU)."

::= { snaNodeLinkAdminEntry 3 }

snaNodeLinkAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a

Management Station to

create or delete the row entry in the

snaNodeLinkAdminTable.

To activate a row, a Management Station sets the value to 'active (1)' or 'notReady (3)'. Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaNodeLinkOperTable.

Row deletion can be Management Station or Agent initiated:

(a) The Management Station can set the value to 'destroy (6)' only when the value of snaNodeLinkOperState of this Link instance is 'inactive (1)'. The Agent will then delete the row corresponding to this Link instance from snaNodeLinkOperTable and from snaNodeLinkAdminTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a

default period of 5 minutes.

(c) The Agent will not include a row with RowStatus='notReady (3)', after SNA system re-initialization (e.g., reboot)."

::= { snaNodeLinkAdminEntry 4 }

```
-- *****
-- The following object is updated when there is a change to
-- the value of any object in the snaNodeLinkAdminTable.
-- *****
```

snaNodeLinkAdminTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) at the last change made to any object in the snaNodeLinkAdminTable, including row deletions/additions (i.e., changes to the snaNodeLinkAdminRowStatus object).

This object can be used to reduce frequent retrievals of the snaNodeLinkAdminTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one.

A difference indicates that some Node operational information has been changed. Only then will the Management Station retrieve the entire table."
::= { snaNode 7 }

```
-- *****  
-- The following table contains the association between  
-- Nodes and link identifiers.  
-- It provides the current status.  
-- *****
```

snaNodeLinkOperTable OBJECT-TYPE
SYNTAX SEQUENCE OF SnaNodeLinkOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains all references
to link
specific tables for operational parameters.
If a Node is configured for multiple links,
then the Node will have multiple entries in
this table. This table augments the
snaNodeLinkAdminTable."
::= { snaNode 8 }

snaNodeLinkOperEntry OBJECT-TYPE
SYNTAX SnaNodeLinkOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Entry contains all current parameters for one
Node link. The objects in the entry have
read-only access."
AUGMENTS { snaNodeLinkAdminEntry }
::= { snaNodeLinkOperTable 1 }

SnaNodeLinkOperEntry ::= SEQUENCE {
snaNodeLinkOperSpecific
InstancePointer,
snaNodeLinkOperMaxPiu
Integer32
}

snaNodeLinkOperSpecific OBJECT-TYPE
SYNTAX InstancePointer
MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"This value points to the row in the table
containing information on the link instance.
(e.g., the sdlcLSOperTable of
the SNA DLC MIB module)."

::= { snaNodeLinkOperEntry 1 }

snaNodeLinkOperMaxPiu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Maximum number of octets that can
be exchanged by this Node in one Path
Information Unit (PIU)."

::= { snaNodeLinkOperEntry 2 }

-- *****

-- The following object is updated when a row is added/deleted
-- from the snaNodeLinkOperTable.

-- *****

snaNodeLinkOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp of the last
change made to any object in the snaNodeLinkOperTable,
including row deletions/additions.

This object can be used to reduce frequent
retrievals of the snaNodeLinkOperTable by a
Management Station. It is expected that a
Management Station will periodically poll this
object and compare its current value with the
previous one.

A difference indicates that some Node operational
information has been changed. Only then will the
Management Station retrieve the entire table."

::= { snaNode 9 }

-- *****

-- Traps

-- *****

snaNodeTraps OBJECT IDENTIFIER ::= { snaNode 10 }

snaNodeStateChangeTrap

NOTIFICATION-TYPE

OBJECTS { snaNodeOperName,
 snaNodeOperState }

STATUS current

DESCRIPTION

"This trap indicates that the operational state
(i.e., value of the snaNodeOperState object) of a Node
has changed. The following variables are returned:
snaNodeOperName - current name of the Node,
 with the instance identifying the Node; and,
snaNodeOperState - current state after
 the change."

::= { snaNodeTraps 1 }

snaNodeActFailTrap NOTIFICATION-TYPE

OBJECTS { snaNodeOperName,
 snaNodeOperState,
 snaNodeOperActFailureReason }

STATUS current

DESCRIPTION

"This trap indicates a Node activation failure.
The value of snaNodeOperState indicates the current
state after the activation attempt.
The value of snaNodeOperActFailureReason indicates
the failure reason."

::= { snaNodeTraps 2 }

-- *****

-- snaLu group

--

-- It contains Managed Objects related to LUs in general and some
-- specific for LUs of type 0, 1, 2, 3.

-- *****

-- *****

-- The following table contains LU configuration parameters.

-- *****

snaLuAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains LU configuration information.
The rows in this table can be created and deleted
by a Management Station.
Only objects which are common to all types of LUs

are included in this table."

::= { snaLu 1 }

snaLuAdminEntry OBJECT-TYPE

SYNTAX SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains configuration variables for an LU."

INDEX { snaNodeAdminIndex, snaLuAdminLuIndex }

::= { snaLuAdminTable 1 }

SnaLuAdminEntry ::= SEQUENCE {

snaLuAdminLuIndex

Integer32,

snaLuAdminName

DisplayString,

snaLuAdminSnaName

DisplayString,

snaLuAdminType

INTEGER,

snaLuAdminDepType

INTEGER,

snaLuAdminLocalAddress

OCTET STRING,

snaLuAdminDisplayModel

INTEGER,

snaLuAdminTerm

INTEGER,

snaLuAdminRowStatus

RowStatus

}

snaLuAdminLuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value identifies the unique index for an
LU instance within a Node."

::= { snaLuAdminEntry 1 }

snaLuAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the user configurable name for this LU. If a name is not assigned to the LU, then this object contains a zero length string.

A write operation to this object will not change the operational value reflected in snaLuOperName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 2 }

snaLuAdminSnaName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the SNA LU name used in exchange of SNA data.

A write operation to this object will not change the operational value reflected in snaLuOperSnaName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 3 }

snaLuAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

lu0(2),

lu1(3),

lu2(4),

lu3(5),

lu4(6),

lu62(7),

lu7(8)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the LU type.

A write operation to this object will not change the operational value reflected in snaLuOperAdminType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 4 }

snaLuAdminDepType OBJECT-TYPE

SYNTAX INTEGER {
 dependent(1),
 independent(2)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies whether the LU is dependent or independent.

A write operation to this object will not change the operational value reflected in snaLuOperDepType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 5 }

snaLuAdminLocalAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The local address for this LU is a byte with a value ranging from 0 to 254. For dependent LUs, this value ranges from 1 to 254 and for independent LUs this value is always 0.

A write operation to this object will not change the operational value reflected in snaLuOperLocalAddress until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 6 }

snaLuAdminDisplayModel OBJECT-TYPE

SYNTAX INTEGER {
 invalid(1),
 model2A(2),
 model2B(3),
 model3A(4),


```
model3B(5),
model4A(6),
model4B(7),
model5A(8),
model5B(9),
dynamic(10)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object identifies the model type
and screen size of the terminal connected to the host.
This

is only valid for LU Type 2. The values have
the following meaning:

model2A(2) - Model 2 (24 rows x 80 cols) with base
attributes

model2B(3) - Model 2 (24 rows x 80 cols) with
extended attributes

model3A(4) - Model 3 (32 rows x 80 cols) with base
attributes

model3B(5) - Model 3 (32 rows x 80 cols) with extended
attributes

model4A(6) - Model 4 (43 rows x 80 cols) with base
attributes

model4B(7) - Model 4 (43 rows x 80 cols) with extended
attributes

model5A(8) - Model 5 (27 rows x 132 cols) with base
attributes

model5B(9) - Model 5 (27 rows x 132 cols) with
extended attributes

dynamic(10) - Screen size determine with

BIND and Read

Partition Query.

In case this LU is not Type 2, then this object
should contain the invalid(1) value."

::= { snaLuAdminEntry 7 }

snaLuAdminTerm OBJECT-TYPE

SYNTAX INTEGER {

```
unbind (1),
termself (2),
rshutd (3),
poweroff (4)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the desired method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF

(Terminate Self) request on

the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner

will send an UNBIND

to terminate the session.

A write operation to this object may immediately change the operational value reflected in snaLuOperTerm depending on the Agent implementation."

::= { snaLuAdminEntry 8 }

snaLuAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaLuAdminTable.

To activate a row, the Management Station sets the value to 'active (1)' or 'notReady (3)'.

Upon successful creation of the row, the Agent

automatically creates a corresponding entry in the
snaLuOperTable with snaLuOperState equal to
'inactive (1)'.

Row deletion can be Management Station

or Agent

initiated:

(a) The Management Station can set the value to
'destroy (6)' only when the value of snaLuOperState
of this LU instance is 'inactive (1)'. The Agent will
then delete the row corresponding to this LU
instance from snaLuAdminTable and
from snaLuOperTable.

(b) The Agent detects that a row is in the
'notReady (3)' state for greater than a
default period of 5 minutes.

(c) The Agent will not create a row with RowStatus
equal to 'notReady (3)', after SNA system
re-initialization (e.g., reboot)."

::= { snaLuAdminEntry 9 }

-- *****

-- The following table contains LU state dynamic parameters.

-- *****

snaLuOperTable OBJECT-TYPE

SYNTAX

SEQUENCE OF SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains dynamic runtime information and
control variables relating to LUs.

Only objects which are common to all types of LUs are
included in this table. This table augments the
snaLuAdminTable."

::= { snaLu 2 }

snaLuOperEntry OBJECT-TYPE

SYNTAX SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains objects reflecting current information
for an LU.

Each entry is created by the Agent. All entries
have read-only access."

AUGMENTS { snaLuAdminEntry }

::= { snaLuOperTable 1 }

SnaLuOperEntry ::= SEQUENCE {

snaLuOperName
 DisplayString,
snaLuOperSnaName
 DisplayString,
snaLuOperType

 INTEGER,
snaLuOperDepType
 INTEGER,
snaLuOperLocalAddress
 OCTET STRING,
snaLuOperDisplayModel
 INTEGER,
snaLuOperTerm
 INTEGER,
snaLuOperState
 INTEGER,
snaLuOperSessnCount
 Gauge32
}

snaLuOperName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "User configurable name for this LU. If a name
 is not assigned, then this object contains a
 zero length string."
::= { snaLuOperEntry 1 }

snaLuOperSnaName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..17))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The value identifies the current SNA LU name."
::= { snaLuOperEntry 2 }

snaLuOperType OBJECT-TYPE

SYNTAX INTEGER {
 other(1),
 lu0(2),
 lu1(3),
 lu2(4),

```
    lu3(5),  
    lu4(6),  
    lu62(7),  
    lu7(8)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current LU type."

::= { snaLuOperEntry 3 }

snaLuOperDepType OBJECT-TYPE

SYNTAX INTEGER {

dependent(1),

independent(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies whether the LU is currently
dependent or independent.

A write operation to this object will
not change the operational value reflected
in snaLuOperDepType until the Node has
been re-activated (e.g., after the next
initialization of the SNA services)."

::= { snaLuOperEntry 4 }

snaLuOperLocalAddress

OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The local address for this LU is a byte with a value
ranging from 0 to 254. For dependent LUs, this value
ranges from 1 to 254; for independent LUs this value
is always 0.

A write operation to this object will
not change the operational value reflected
in snaLuOperLocalAddress until the Node has
been re-activated (e.g., after the next
initialization of the SNA services)."

::= { snaLuOperEntry 5 }

snaLuOperDisplayModel OBJECT-TYPE

SYNTAX INTEGER {

invalid(1),
model2A(2),
model2B(3),
model3A(4),
model3B(5),
model4A(6),
model4B(7),
model5A(8),
model5B(9),
dynamic(10)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The screen model type of the terminal connected to the host. If this LU is not Type 2, then this object should contain the 'invalid(1)' value."

::= { snaLuOperEntry 6 }

snaLuOperTerm OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),
termself (2),
rshutd (3),
poweroff (4)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also

acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session."

::= { snaLuOperEntry 7 }

snaLuOperState OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),

active (2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current operational state of this LU.

It has different meanings for dependent and independent LUs.

For dependent LUs the values indicate the following:

inactive (1) - LU didn't receive ACTLU, or

it received DACTLU, or received ACTLU and sent negative response.

active (2) - LU received ACTLU and acknowledged positively.

For independent LUs the values

indicate the following:

active (2) - the LU is defined and is able to send and receive BIND.

inactive (1) - the LU has a session count equal to 0."

::= { snaLuOperEntry 8 }

snaLuOperSessnCount OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active LU-LU sessions of this LU.

For the independent LU, if this object has value 0, it indicates that LU is inactive."

::= { snaLuOperEntry 9 }

```
-- *****
-- The following table contains LU session status parameters.
-- *****
```

snaLuSessnTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuSessnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a table containing objects which describe the operational state of LU sessions. Only objects which are common to all types of LU sessions are included in this table.

When a session's snaLuSessnOperState value changes to 'pendingBind (2)', then the corresponding entry in the session table is created by the Agent.

When the session's snaLuSessnOperState value changes to 'unbound (1)', then the session will be removed from the session table by the Agent."

::= { snaLu 3 }

snaLuSessnEntry OBJECT-TYPE

SYNTAX SnaLuSessnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains dynamic parameters for an LU-LU session.

The indices identify the Node, local LU, and remote LU for this session."

INDEX { snaNodeAdminIndex,
snaLuAdminLuIndex,
snaLuSessnRluIndex,
snaLuSessnIndex }

::= { snaLuSessnTable 1 }

SnaLuSessnEntry ::= SEQUENCE {

snaLuSessnRluIndex

Integer32,

snaLuSessnIndex

Integer32,

snaLuSessnLocalApplName

DisplayString,


```

snaLuSessnRemoteLuName
    DisplayString,
snaLuSessnMaxSndRuSize
    INTEGER,
snaLuSessnMaxRcvRuSize
    INTEGER,
snaLuSessnSndPacingSize
    INTEGER,
snaLuSessnRcvPacingSize
    INTEGER,
snaLuSessnActiveTime
    TimeStamp,
snaLuSessnAdminState
    INTEGER,
snaLuSessnOperState
    INTEGER,
snaLuSessnSenseData
    OCTET STRING,
snaLuSessnTerminationRu
    INTEGER,
snaLuSessnUnbindType
    OCTET STRING,
snaLuSessnLinkIndex
    Integer32
}

```

snaLuSessnRluIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value may be used to identify information about the session partner LU in a table of information about remote LUs. Such a table is not defined in this document. If a table of remote LU information is not implemented, or if the table is implemented but it does not contain information about the partner LU for a particular session (as for dependent LU-LU sessions) then this object will have a value of zero."

::= { snaLuSessnEntry 1 }

snaLuSessnIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the unique index of the session.
It is recommended

that an Agent should not reuse the
index of a deactivated session for a significant
period of time (e.g., one week)."
::= { snaLuSessnEntry 2 }

snaLuSessnLocalApplName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the local application using this LU.
If the local application is unknown, then this object
contains a zero length string."

::= { snaLuSessnEntry 3 }

snaLuSessnRemoteLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For dependent LUs which are indicated by the
snaLuOperDepType object containing the value
'dependent (1)', this object contains the Primary
LU (PLU) name. For independent LUs,
this object contains the fully-qualified

remote LU

name of this 6.2 session.

A fully qualified name is an SNA NAU entity name
preceded by the NetId and a period as the delimiter."

::= { snaLuSessnEntry 4 }

snaLuSessnMaxSndRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum RU size used on this session for sending
RUs."

::= { snaLuSessnEntry 5 }

snaLuSessnMaxRcvRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum RU size used on this session for
receiving RUs."

::= { snaLuSessnEntry 6 }

snaLuSessnSndPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the send pacing window on this session."

::= {

snaLuSessnEntry 7 }

snaLuSessnRcvPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the receive pacing window on this session."

::= { snaLuSessnEntry 8 }

snaLuSessnActiveTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) when this session becomes active."

::= { snaLuSessnEntry 9 }

snaLuSessnAdminState OBJECT-TYPE

SYNTAX INTEGER {

unbound (1),

bound (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value indicates the desired operational state of the session. This object is used to change the operational state of the session.

A Management Station

can only change the operational

state of the session to 'unbound (1)'.

Session deactivation:

If a session is in the operational state

'bound (3)' then setting the value of this

object to 'unbound (1)' will initiate the

session shutdown.

If a session is in the operational state
'pendingBind (2)' then setting the value of this
object to 'unbound (1)' will initiate the session
shutdown.

If a session is in the operational state
'pendingUnbind (4)' for an abnormally long period
of time (e.g., three minutes) then setting the value
of this object to 'unbound (1)' will change the
session operational state to 'unbound (1)'.

Note: for dependent LUs, deactivating the session is
the same as deactivating

the LU."

```
::= { snaLuSessnEntry 10 }
```

snaLuSessnOperState OBJECT-TYPE

```
SYNTAX INTEGER {  
    unbound (1),  
    pendingBind (2),  
    bound (3),  
    pendingUnbind (4)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the current operational state of
the session.

'unbound (1)' - session has been unbound;
in this state it will be removed from the
session table by the Agent.

'pendingBind (2)' - this state has different
meanings for dependent and independent LUs;
for dependent LU - waiting for BIND from
the host, for independent LU - waiting for
BIND response. When a session enters this
state, the corresponding entry in the

session table is created by the Agent.

'bound (3)' - session has been successfully bound.

'pendingUnbind (4)' - session enters this state
when an UNBIND is sent and before the
rsp(UNBIND) is received."

```
::= { snaLuSessnEntry 11 }
```

snaLuSessnSenseData OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..8))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the sense code when there is a BIND failure. It is taken from the negative BIND response or UNBIND request.

This is displayed as 8 hexadecimal digits."

::= { snaLuSessnEntry 12 }

snaLuSessnTerminationRu OBJECT-TYPE

SYNTAX INTEGER {

other (1),

bindFailure (2),

unbind (3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the SNA RU that terminated the session.

If the session is not in the unbound state, this object has a value of 'other (1)'."

::= { snaLuSessnEntry 13 }

snaLuSessnUnbindType OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..1))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the session is in the unbound state, and it was terminated by an UNBIND, then this object contains the UNBIND type value (byte 1 of the UNBIND RU); otherwise the string is null."

::= { snaLuSessnEntry 14 }

snaLuSessnLinkIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the link over which the session passes. It is an index into snaNodeLinkAdminTable.

If the index value is not known,

the value of this
 object shall be zero."
 ::= { snaLuSessnEntry 15 }

```
-- *****
-- The following table contains LU sessions statistics dynamic
-- parameters.
-- *****
```

snaLuSessnStatsTable OBJECT-TYPE
 SYNTAX SEQUENCE OF SnaLuSessnStatsEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains dynamic statistics information
 relating to LU sessions.
 The entries in this table augment the entries in
 the snaLuSessnTable and cannot be created by
 a Management Station."
 ::= { snaLu 4 }

snaLuSessnStatsEntry OBJECT-TYPE
 SYNTAX SnaLuSessnStatsEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Contains statistics information for an LU session.

Each entry is created by the Agent.
 Objects in this table have read-only access.
 Each session from snaLuSessnTable
 has one entry in this table."
 AUGMENTS { snaLuSessnEntry }
 ::= { snaLuSessnStatsTable 1 }

SnaLuSessnStatsEntry ::= SEQUENCE {
 snaLuSessnStatsSentBytes
 Counter32,
 snaLuSessnStatsReceivedBytes
 Counter32,
 snaLuSessnStatsSentRus
 Counter32,
 snaLuSessnStatsReceivedRus
 Counter32,
 snaLuSessnStatsSentNegativeResps
 Counter32,
 snaLuSessnStatsReceivedNegativeResps

Counter32
}

snaLuSessnStatsSentBytes OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of bytes sent by the local LU."
::= { snaLuSessnStatsEntry 1 }

snaLuSessnStatsReceivedBytes OBJECT-TYPE

SYNTAX
Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of bytes received by the local LU."
::= { snaLuSessnStatsEntry 2 }

snaLuSessnStatsSentRus OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of RUs sent by the local LU."
::= { snaLuSessnStatsEntry 3 }

snaLuSessnStatsReceivedRus OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of RUs received by the local LU."
::= { snaLuSessnStatsEntry 4 }

snaLuSessnStatsSentNegativeResps OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The number of negative responses sent by the
 local LU."
::= { snaLuSessnStatsEntry 5 }

snaLuSessnStatsReceivedNegativeResps OBJECT-TYPE

SYNTAX

Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of negative responses received by the
local LU."

::= { snaLuSessnStatsEntry 6 }

-- *****

-- Traps

-- *****

snaLuTraps OBJECT IDENTIFIER ::= { snaLu 5 }

snaLuStateChangeTrap NOTIFICATION-TYPE

OBJECTS { snaLuOperName,
snaLuOperSnaName,
snaLuOperState }

STATUS current

DESCRIPTION

"This trap indicates that the operational state
(i.e., snaLuOperState value) of the LU has changed.
The value of snaLuOperName indicates the name of the
LU.
The value of snaLuOperSnaName indicates the SNA name
of LU.
The value of snaLuOperState indicates the current
state after

change."

::= { snaLuTraps 1 }

snaLuSessnBindFailTrap NOTIFICATION-TYPE

OBJECTS { snaLuSessnLocalApplName,
snaLuSessnRemoteLuName,
snaLuSessnOperState,
snaLuSessnSenseData }

STATUS current

DESCRIPTION

"This trap indicates the failure of a BIND.
The value of snaLuSessnLocalApplName indicates the local
application name.
The value of snaLuSessnPartnerName indicates the partner
name.
The value of snaLuSessnOperState indicates the current
state after change.
The value of snaLuSessnBindFailureReason
indicates the failure reason.


```

        The Agent should not generate more than 1 trap of this
        type per minute to minimize the level of management
        traffic on the network."
 ::= { snaLuTraps 2 }

-- *****
--
snaMgtTools group
--
-- Currently this group contains only one table.
-- *****

-- *****
-- The following table contains Response Time Monitoring (RTM)
-- configuration information and statistics for LU Type 2s.
-- RTM supports the capability to measure and report end-user
-- response times for dependent LUs. When the RTM state of an LU
-- is 'on', response times for each LU transaction are monitored.
-- A set of ranges is defined (e.g., Range 1 includes the number of
-- transactions with response times less than 1 second) using the
-- "boundary" definitions (e.g., boundary #2 is defined as 3 seconds).
-- A set of counters (one per range) identifies
-- the number of transactions within each response time range.
-- *****

snaLuRtmTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SnaLuRtmEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table contains Response Time Monitoring (RTM)
        information relating to an LU (Type 2). Each entry
        corresponds to an LU 2 entry in
        snaLuAdminTable."
    ::= { snaMgtTools 1 }

snaLuRtmEntry OBJECT-TYPE
    SYNTAX SnaLuRtmEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Contains RTM information for an LU (Type 2).
        Each entry is created by the Agent."
    INDEX { snaLuRtmPuIndex, snaLuRtmLuIndex }
    ::= { snaLuRtmTable 1 }

SnaLuRtmEntry ::= SEQUENCE {

```

```

snaLuRtmPuIndex
    Integer32,
snaLuRtmLuIndex
    Integer32,
snaLuRtmState
    INTEGER,
snaLuRtmStateTime
    TimeStamp,
snaLuRtmDef
    INTEGER,
snaLuRtmBoundary1
    Integer32,
snaLuRtmBoundary2
    Integer32,
snaLuRtmBoundary3
    Integer32,
snaLuRtmBoundary4
    Integer32,
snaLuRtmCounter1
    Counter32,
snaLuRtmCounter2
    Counter32,
snaLuRtmCounter3
    Counter32,
snaLuRtmCounter4
    Counter32,
snaLuRtmOverFlows
    Counter32,
snaLuRtmObjPercent
    Integer32,
snaLuRtmObjRange
    INTEGER,
snaLuRtmNumTrans
    Integer32,
snaLuRtmLastRspTime
    Integer32,
snaLuRtmAvgRspTime
    Integer32
}

```

snaLuRtmPuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value identifies the PU 2.0 with which this LU is associated."

::= { snaLuRtmEntry 1 }

snaLuRtmLuIndex OBJECT-TYPE

SYNTAX

Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value uniquely identifies an LU in a PU 2.0."

::= { snaLuRtmEntry 2 }

snaLuRtmState OBJECT-TYPE

SYNTAX INTEGER {

off(1),

on(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the current RTM state of an LU."

::= { snaLuRtmEntry 3 }

snaLuRtmStateTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)
when this session's RTM state (e.g., snaLuRtmState)
changes value."

::= { snaLuRtmEntry 4 }

snaLuRtmDef OBJECT-TYPE

SYNTAX INTEGER {

firstChar(1),

kb(2),

cdeb(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the mode of measurement for this
RTM request. The values have following meaning:
firstChar(1) - time to first character on screen
kb(2) - time to keyboard usable by operator
cdeb(3) - time to Change Direction/End Bracket."

::= { snaLuRtmEntry 5 }

snaLuRtmBoundary1 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the first boundary
in units of 1/10th of a second."

::= { snaLuRtmEntry 6 }

snaLuRtmBoundary2 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the second boundary
in units of 1/10th of a second."

::= { snaLuRtmEntry 7 }

snaLuRtmBoundary3 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the third boundary
in units of 1/10th of a second."

::= { snaLuRtmEntry 8 }

snaLuRtmBoundary4 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the fourth boundary
in units of 1/10th of a second."

::= { snaLuRtmEntry 9 }

snaLuRtmCounter1 OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which
fall in the range specified by the first boundary."

::= { snaLuRtmEntry 10 }

snaLuRtmCounter2 OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current
DESCRIPTION
 "This value indicates
the number of transactions which
 fall in the range specified by the second boundary."
::= { snaLuRtmEntry 11 }

snaLuRtmCounter3 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates the number of transactions which
 fall in the range specified by the third boundary."
::= { snaLuRtmEntry 12 }

snaLuRtmCounter4 OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates the number of transactions which
 fall in the range specified by the fourth boundary."
::= { snaLuRtmEntry 13 }

snaLuRtmOverFlows OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates the number of transactions which
 exceed the highest range specified by
the
 boundaries."
::= { snaLuRtmEntry 14 }

snaLuRtmObjPercent OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates the desired percentage of
 transactions which should be under a designated
 boundary range indicated by snaLuRtmObjRange."
::= { snaLuRtmEntry 15 }

snaLuRtmObjRange OBJECT-TYPE
SYNTAX INTEGER {

```
other(1),
range1(2),
range2(3),
range3(4),
range4(5),
range5(6)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the designated boundary range to which the snaLuRtmObject refers.

The values have the following meanings:

other(1) - not specified

range1(2) - less than boundary

1

range2(3) - between boundary 1 and 2

range3(4) - between boundary 2 and 3

range4(5) - between boundary 3 and 4

range5(6) - greater than boundary 4."

::= { snaLuRtmEntry 16 }

snaLuRtmNumTrans OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the total number of transactions executed since the RTM monitoring began (i.e.,

snaLuRtmState changed to 'on(2)') for this LU."

::= { snaLuRtmEntry 17 }

snaLuRtmLastRspTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the response time for the last transaction in units of 1/10th of a second."

::= { snaLuRtmEntry 18 }

snaLuRtmAvgRspTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the average response time for all transactions in units of 1/10th of a second."

```

::= { snaLuRtmEntry 19 }

-- *****
-- Conformance information
-- *****

snanauConformance    OBJECT IDENTIFIER ::= { snanauMIB 2 }

snanauCompliances     OBJECT IDENTIFIER ::= {snanauConformance 1 }
snanauGroups          OBJECT IDENTIFIER ::= {snanauConformance 2 }

-- Compliance statements
snanauCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for the SNMPv2 entities
        which implement the snanau MIB."
    MODULE -- this module

-- Unconditionally mandatory groups
    MANDATORY-GROUPS { snaNodeGroup,
        snaLuGroup,
        snaSessionGroup
    }

-- Conditionally mandatory groups
    GROUP snaPu20Group
    DESCRIPTION
        "The snaPu20Group is mandatory only for those
        entities which implement PU type 2.0"
    GROUP snaMgtToolsRtmGroup
    DESCRIPTION
        "The snaMgtToolsGroup is mandatory only for
        those entities which implement LU type 2
        and RTM."

-- Refinement of requirements for objects access.
-- The Agent which does not implement row creation for
-- snaNodeAdminTable, snaNodeLinkAdminTable and
-- snaLuAdminTable must at least accept
-- objects modification (read-write access instead of
-- read-create).

    OBJECT snaNodeAdminName
    MIN-ACCESS read-write
    DESCRIPTION
        "An Agent is required to implement read-write

```

access to this object."

OBJECT snaNodeAdminType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminXidFormat

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminBlockNum

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminIdNum

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminEnablingMethod

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminLuTermDefault

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminMaxLu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminHostDescription

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaNodeAdminStopMethod

MIN-ACCESS read-write

DESCRIPTION

"An

Agent is required to implement read-write

access to this object."

OBJECT snaNodeAdminState

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaNodeLinkAdminSpecific

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaNodeLinkAdminMaxPiu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaLuAdminName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this

object."

OBJECT snaLuAdminSnaName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaLuAdminType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaLuAdminDepType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminLocalAddress

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminDisplayModel

MIN-ACCESS

read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminTerm

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

::= {snanauCompliances 1 }

-- Units of conformance

snaNodeGroup OBJECT-GROUP

OBJECTS { snaNodeAdminName,
snaNodeAdminType,
snaNodeAdminXidFormat,
snaNodeAdminBlockNum,
snaNodeAdminIdNum,
snaNodeAdminEnablingMethod,
snaNodeAdminLuTermDefault,
snaNodeAdminMaxLu,
snaNodeAdminHostDescription,
snaNodeAdminStopMethod,
snaNodeAdminState,
snaNodeAdminRowStatus,
snaNodeAdminTableLastChange,
snaNodeOperName,
snaNodeOperType,
snaNodeOperXidFormat,
snaNodeOperBlockNum,
snaNodeOperIdNum,
snaNodeOperEnablingMethod,
snaNodeOperLuTermDefault,

```

snaNodeOperMaxLu,
snaNodeOperHostDescription,
snaNodeOperStopMethod,
snaNodeOperState,
snaNodeOperHostSscpId,
snaNodeOperStartTime,
snaNodeOperLastStateChange,
snaNodeOperActFailures,
snaNodeOperActFailureReason,
snaNodeOperTableLastChange,
snaNodeLinkAdminSpecific,
snaNodeLinkAdminMaxPiu,
snaNodeLinkAdminRowStatus,
snaNodeLinkAdminTableLastChange,
snaNodeLinkOperSpecific,
snaNodeLinkOperMaxPiu,
snaNodeLinkOperTableLastChange }
STATUS current
DESCRIPTION

```

"A collection of objects providing the instrumentation of SNA nodes."

```

::= { snanauGroups 1 }

```

```

snaLuGroup OBJECT-GROUP
OBJECTS { snaLuAdminName,
snaLuAdminSnaName,
snaLuAdminType,
snaLuAdminDepType,
snaLuAdminLocalAddress,
snaLuAdminDisplayModel,
snaLuAdminTerm,
snaLuAdminRowStatus,
snaLuOperName,
snaLuOperSnaName,
snaLuOperType,
snaLuOperDepType,
snaLuOperLocalAddress,
snaLuOperDisplayModel,
snaLuOperTerm,
snaLuOperState,
snaLuOperSessnCount }

```

```

STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of SNA LUs."
::= { snanauGroups 2 }

```

snaSessionGroup OBJECT-GROUP

OBJECTS { snaLuSessnRluIndex,

snaLuSessnIndex,

snaLuSessnLocalApplName,
snaLuSessnRemoteLuName,
snaLuSessnMaxSndRuSize,
snaLuSessnMaxRcvRuSize,
snaLuSessnSndPacingSize,
snaLuSessnRcvPacingSize,
snaLuSessnActiveTime,
snaLuSessnAdminState,
snaLuSessnOperState,
snaLuSessnSenseData,
snaLuSessnTerminationRu,
snaLuSessnUnbindType,
snaLuSessnLinkIndex,
snaLuSessnStatsSentBytes,
snaLuSessnStatsReceivedBytes,
snaLuSessnStatsSentRus,
snaLuSessnStatsReceivedRus,
snaLuSessnStatsSentNegativeResps,
snaLuSessnStatsReceivedNegativeResps }

STATUS current

DESCRIPTION

"A collection of objects providing the
instrumentation of SNA sessions."

::= { snanauGroups 3 }

snaPu20Group

OBJECT-GROUP

OBJECTS { snaPu20StatsSentBytes,
snaPu20StatsReceivedBytes,
snaPu20StatsSentPius,
snaPu20StatsReceivedPius,
snaPu20StatsSentNegativeResps,
snaPu20StatsReceivedNegativeResps,
snaPu20StatsActLus,
snaPu20StatsInActLus,
snaPu20StatsBindLus }

STATUS current

DESCRIPTION

"A collection of objects providing the
instrumentation of PU 2.0."

::= { snanauGroups 4 }

snaMgtToolsRtmGroup OBJECT-GROUP

OBJECTS { snaLuRtmState,

```

        snaLuRtmStateTime,
        snaLuRtmDef,
        snaLuRtmBoundary1,
        snaLuRtmBoundary2,
        snaLuRtmBoundary3,
        snaLuRtmBoundary4,
        snaLuRtmCounter1,
        snaLuRtmCounter2,
        snaLuRtmCounter3,
        snaLuRtmCounter4,
        snaLuRtmOverFlows,
        snaLuRtmObjPercent,
        snaLuRtmObjRange,
        snaLuRtmNumTrans,
        snaLuRtmLastRspTime,
        snaLuRtmAvgRspTime }
STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of RTM for SNA LU 2.0."
::= { snanauGroups 5 }

-- end of conformance statement

END

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

Modem-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
    Counter32, Integer32 FROM SNMPv2-SMI
    DisplayString FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
    mib-2 FROM RFC1213-MIB;

mdmMIB MODULE-IDENTITY
    LAST-UPDATED "9406120000Z"
    ORGANIZATION "IETF Modem Management Working Group"
    CONTACT-INFO
        "      Steven Waldbusser
        Postal: Carnegie Mellon University

```

5000 Forbes Ave
Pittsburgh, PA, 15213
US

Tel: +1 412 268 6628

Fax: +1 412 268 4987

E-mail: waldbusser@cmu.edu"

DESCRIPTION

"The MIB module for management of dial-up modems."

::= { mdmMib 1 }

mdmMib OBJECT IDENTIFIER ::= { mib-2 38 }

mdmMIBObjects OBJECT IDENTIFIER ::= { mdmMIB 1 }

-- conformance information

mdmConformance OBJECT IDENTIFIER

::= { mdmMIB 2 }

mdmCompliances OBJECT IDENTIFIER ::= { mdmConformance 1 }

mdmGroups OBJECT IDENTIFIER ::= { mdmConformance 2 }

-- units of conformance

mdmIDGroup OBJECT-GROUP

OBJECTS { mdmIDManufacturerOID, mdmIDProductDetails }

STATUS current

DESCRIPTION

"A collection of objects that identify the manufacturer and
model information for a modem."

::= { mdmGroups 1 }

mdmLineInterfaceGroup OBJECT-GROUP

OBJECTS { mdmLineCarrierLossTime,
mdmLineState, mdmLineCapabilitiesID,
mdmLineCapabilitiesEnableRequested,
mdmLineCapabilitiesEnableGranted }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and
state of the modem's line interface."

::= { mdmGroups 2 }

mdmDTEInterfaceGroup OBJECT-GROUP

OBJECTS { mdmDTEActionDTROnToOff, mdmDTEActionDTROffToOn,
mdmDTESyncTimingSource, mdmDTESyncAsyncMode,

mdmDTEInactivityTimeout }
STATUS current
DESCRIPTION
"A collection of objects that describe the configuration and
state of the modem's DTE interface."
::= { mdmGroups 3 }

mdmCallControlGroup OBJECT-GROUP
OBJECTS { mdmCCRingsBeforeAnswer,
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

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 MdmECEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The modem error correcting table augments the modem ID
        table."
    ::= { mdmMIBObjects 9 }

mdmECEntry OBJECT-TYPE
    SYNTAX      MdmECEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
    AUGMENTS
        { mdmIDEntry }
    ::= { mdmECTable 1 }

MdmECEntry ::= SEQUENCE {
    mdmECErrorControlUsed      OBJECT IDENTIFIER

```

}

mdmECErrorControlUsed OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates the error control method used during the current or previous call. This shall be one of the values for error control protocols registered in the capabilities table for this modem. If no error control protocol is in use, this object shall have the value '{0 0}'."

REFERENCE "V.58 errorControlActive"

::= { mdmECEntry 1 }

-- The modem Data Compression Group

mdmDCTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmDCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem data compression table augments the modem ID table."

::= { mdmMIBObjects 10 }

mdmDCEntry OBJECT-TYPE

SYNTAX MdmDCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmDCTable 1 }

MdmDCEntry ::= SEQUENCE {

mdmDCCompressionTypeUsed OBJECT IDENTIFIER

}

mdmDCCompressionTypeUsed OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates the data compression method used during the current or previous call. This shall be one of the values for compression protocols registered in the capabilities

table for this modem. If no compression protocol is in use,
this object shall have the value '{0 0}'."
::= { mdmDCEntry 1 }

-- The modem Signal Convertor Group

mdmSCTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmSCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem signal convertor table augments the modem ID
table."

::= { mdmMIBObjects 11 }

mdmSCEntry OBJECT-TYPE

SYNTAX MdmSCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One
entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmSCTable 1 }

MdmSCEntry ::= SEQUENCE {

mdmSCCurrentLineTransmitRate Integer32,

mdmSCCurrentLineReceiveRate Integer32,

mdmSCInitialLineTransmitRate Integer32,

mdmSCInitialLineReceiveRate Integer32,

mdmSCModulationSchemeUsed OBJECT IDENTIFIER

}

mdmSCCurrentLineTransmitRate OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current link transmit rate of a connection, or the last
link transmit rate of the last connection

in bits per

second."

REFERENCE "V.58 transmissionSignallingRateActive"

::= { mdmSCEntry 1 }

mdmSCCurrentLineReceiveRate OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current
 DESCRIPTION
 "The current link receive rate of a connection, or the last link receive rate of the last connection in bits per second."
 REFERENCE "V.58 transmissionSignallingRateActive"
 ::= { mdmSCEnter 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."
 ::= { mdmSCEnter 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."
 ::= { mdmSCEnter 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 }

mdmStatsGreaterThanOrEqualTo14400Connections
OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of connections initially established at a
modulation speed of greater than 14400 bits per second."
::= { mdmStatsEntry 10 }

mdmStatsErrorControlledConnections OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of established connections using an error
control protocol."
::= { mdmStatsEntry 11 }

mdmStatsCompressedConnections OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of established connections using a compression protocol."

::= { mdmStatsEntry 12 }

mdmStatsCompressionEfficiency OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of bytes transferred into the compression encoder divided by the number of bytes transferred out of the encoder, multiplied by 100 for either the current or last call. If a data compression protocol is not in use, this value shall be `100'."

REFERENCE "V.58 compressionEfficiency"

::= { mdmStatsEntry 13 }

mdmStatsSentOctets OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets presented to the modem by the DTE."

::= { mdmStatsEntry 14 }

mdmStatsReceivedOctets OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets presented to the DTE by the modem."

::= { mdmStatsEntry 15 }

mdmStatsSentDataFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of data frames sent on the line interface. If

there is no frame-oriented protocol in use on the line interface, this counter shall not increment."

::= { mdmStatsEntry 16 }

mdmStatsReceivedDataFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of data frames received on the line interface.

If there is no frame-oriented protocol in use on the line interface, this counter shall not increment."

::= { mdmStatsEntry 17 }

mdmStatsResentFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times this modem retransmits frames on the line interface. If there is no frame-oriented protocol in use on the line interface, this counter shall not increment."

::= { mdmStatsEntry 18 }

mdmStatsErrorFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of block errors received on the link. If there is no frame-oriented protocol in use on the line interface, this counter shall not increment."

::= { mdmStatsEntry 19 }

-- compliance statements

mdmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMPv2 entities which implement the modem MIB."

MODULE -- this module

MANDATORY-GROUPS { mdmIDGroup, mdmLineInterfaceGroup,
mdmDTEInterfaceGroup, mdmCallControlGroup,
mdmSignalConvertorGroup, mdmStatisticsGroup }

GROUP mdmErrorControlGroup

DESCRIPTION

"This group is mandatory only for those modems that implement an error correction protocol."

GROUP mdmDataCompressionGroup

DESCRIPTION

"This group is mandatory only for those modems that implement a data compression protocol."

::= { mdmCompliances 1 }

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-MIB

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

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS

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

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

CONTACT-INFO

"Postal: Internet Assigned Numbers Authority
Internet Corporation for Assigned Names
and Numbers
4676 Admiralty Way, Suite 330
Marina del Rey, CA 90292-6601
USA

Tel: +1 310-823-9358

E-Mail: iana&iana.org"

DESCRIPTION

"The MIB module defines the ITU Alarm textual convention for objects expected to require regular extension.

Copyright (C) The Internet Society (2004). The initial version

of this MIB module was published

in RFC 3877. For full legal notices see the RFC itself. Supplementary information may be available on:

<http://www.ietf.org/copyrights/ianamib.html>"

REVISION "200409090000Z"

DESCRIPTION

"Initial version, published as RFC 3877."

::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in X.733 are appended with X733 to ensure syntactic uniqueness. Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations in this TC.

IANAItuProbableCause value of 0 is reserved for special purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a first-come, first served basis and will be assigned enumeration values starting with 1025.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

While some effort will be taken to ensure that new probable causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more experts to help review requests.

See <http://www.iana.org>"

REFERENCE

"ITU Recommendation M.3100,
'Generic Network Information
Model', 1995
ITU Recommendation X.733, 'Information Technology - Open
Systems Interconnection - System Management: Alarm
Reporting Function', 1992

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):

* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANA-ITU-ALARM-TC-MIB

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

SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
TimeTicks, Counter32, snmpModules, mib-2
FROM SNMPv2-SMI
DisplayString, TestAndIncr, TimeStamp

FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
FROM SNMPv2-CONF;

snmpMIB MODULE-IDENTITY

LAST-UPDATED "200210160000Z"

ORGANIZATION "IETF SNMPv3 Working Group"

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DESCRIPTION

"The MIB module for SNMP entities.

Copyright (C) The Internet Society (2002). This
version of this MIB module is part of RFC 3418;
see the RFC itself for full legal notices.

"

REVISION "200210160000Z"

DESCRIPTION

"This revision of this MIB module was published as
RFC 3418."

REVISION "199511090000Z"

DESCRIPTION

```

        "This revision of this MIB module was published as
        RFC 1907."
REVISION    "199304010000Z"
DESCRIPTION
    "The initial revision of this MIB module was published
    as RFC 1450."
::= { snmpModules 1 }

snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

-- ::= { snmpMIBObjects 1 }    this OID is obsolete
-- ::= { snmpMIBObjects 2 }    this OID is obsolete
-- ::= { snmpMIBObjects 3 }    this OID is obsolete

-- the System group
--
-- a collection of objects common to all managed systems.

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

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

sysObjectID
OBJECT-TYPE
    SYNTAX     OBJECT IDENTIFIER
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
        "The vendor's authoritative identification of the
        network management subsystem contained in the entity.
        This value is allocated within the SMI enterprises
        subtree (1.3.6.1.4.1) and provides an easy and
        unambiguous means for determining `what kind of box' is
        being managed. For example, if vendor `Flintstones,
        Inc.' was assigned the subtree 1.3.6.1.4.1.424242,
        it could assign the identifier 1.3.6.1.4.1.424242.1.1
        to its `Fred Router'."
    ::= { system 2 }

```

sysUpTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time (in hundredths of a second) since the network management portion of the system was last re-initialized."

::= { system 3 }

sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The textual identification of the contact person for this managed node, together with information on how to contact this person. If no contact information is known, the value is the zero-length string."

::= { system 4 }

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name. If the name is unknown, the value is the zero-length string."

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The physical location of this node (e.g., 'telephone closet, 3rd floor'). If the location is unknown, the value is the zero-length string."

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A value which indicates the set of services that this entity may potentially offer. The value is a sum.

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

layer	functionality
1	physical (e.g., repeaters)
2	datalink/subnetwork (e.g., bridges)
3	internet (e.g., supports the IP)
4	end-to-end (e.g., supports the TCP)
7	applications (e.g., supports the SMTP)

For systems including OSI protocols, layers 5 and 6 may also be counted."

::= { system 7 }

-- object resource information

--

-- a collection of objects which describe the SNMP entity's

-- (statically and dynamically configurable) support of

-- various MIB modules.

sysORLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time of the most recent change in state or value of any instance of sysORID."

::= { system 8 }

sysORTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the capabilities of the local SNMP application acting as a command responder with respect to various MIB modules. SNMP entities having dynamically-configurable support of MIB modules will have a dynamically-varying number of conceptual rows."

::= { system 9 }

sysOREntry OBJECT-TYPE

SYNTAX SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) in the sysORTable."

INDEX { sysORIndex }

::= { sysORTable 1 }

SysOREntry ::= SEQUENCE {

sysORIndex INTEGER,

sysORID OBJECT IDENTIFIER,

sysORDescr DisplayString,

sysORUpTime TimeStamp

}

sysORIndex OBJECT-TYPE

SYNTAX INTEGER (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The auxiliary variable used for identifying instances of the columnar objects in the sysORTable."

::= { sysOREntry 1 }

sysORID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An authoritative identification of a capabilities statement with respect to various MIB modules supported by the local SNMP application acting as a command responder."

::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of the capabilities identified
by the corresponding instance of sysORID."

::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time this conceptual
row was last instantiated."

::= { sysOREntry 4 }

-- the SNMP group

--

-- a collection of objects providing basic instrumentation
and

-- control of an SNMP entity.

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

snmpInPkts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of messages delivered to the SNMP
entity from the transport service."

::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of SNMP messages which were delivered
to the SNMP entity and were for an unsupported SNMP
version."

::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which used an SNMP community name not known to said entity. Also, implementations which authenticate community-based SNMP messages using check(s) in addition to matching the community name (for example, by also checking whether the message originated from a transport address allowed to use a specified community name) MAY include in this value the number of messages which failed the additional check(s). It is strongly RECOMMENDED that

the documentation for any security model which is used to authenticate community-based SNMP messages specify the precise conditions that contribute to this value."

::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which represented an SNMP operation that was not allowed for the SNMP community named in the message. The precise conditions under which this counter is incremented (if at all) depend on how the SNMP entity implements its access control mechanism and how its applications interact with that access control mechanism. It is strongly RECOMMENDED that the documentation for any access control mechanism which is used to control access to and visibility of MIB instrumentation specify the precise conditions that contribute to this value."

::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of ASN.1 or BER errors encountered by the SNMP entity when decoding received SNMP messages."
 ::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the SNMP entity is permitted to generate authenticationFailure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authenticationFailure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant across re-initializations of the network management system."

::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a Response-PDU) with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of the request."

::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the transmission of the (possibly translated) message to a proxy target failed in a manner (other than a time-out) such that no Response Class PDU (such as a Response-PDU) could be returned."

::= { snmp 32 }

-- information for notifications

--

-- a collection of objects which allow the SNMP entity, when

-- supporting a notification

originator application,

-- to be configured to generate SNMPv2-Trap-PDUs.

snmpTrap OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }

snmpTrapOID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The authoritative identification of the notification currently being sent. This variable occurs as the second varbind in every SNMPv2-Trap-PDU and InformRequest-PDU."

::= { snmpTrap 1 }

-- ::= { snmpTrap 2 } this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The authoritative identification of the enterprise associated with the trap currently being sent. When an SNMP proxy agent is mapping an RFC1157 Trap-PDU into a SNMPv2-Trap-PDU, this variable occurs as the last varbind."

::= { snmpTrap

3 }

-- ::= { snmpTrap 4 } this OID is obsolete

-- well-known traps

snmpTraps OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A coldStart trap signifies that the SNMP entity,
supporting a notification originator application, is
reinitializing itself and that its configuration may
have been altered."

::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A warmStart trap signifies that the SNMP entity,
supporting a notification originator application,
is reinitializing itself such that its configuration
is unaltered."

::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }

-- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }

-- are defined in RFC 2863 [RFC2863]

authenticationFailure NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"An

authenticationFailure trap signifies that the SNMP
entity has received a protocol message that is not
properly authenticated. While all implementations
of SNMP entities MAY be capable of generating this
trap, the snmpEnableAuthenTraps object indicates
whether this trap will be generated."

::= { snmpTraps 5 }

-- Note the egpNeighborLoss notification is defined

-- as { snmpTraps 6 } in RFC 1213

```

-- the set group
--
-- a collection of objects which allow several cooperating
-- command generator applications to coordinate their use of the
-- set operation.

snmpSet    OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }

snmpSetSerialNo OBJECT-TYPE
    SYNTAX    TestAndIncr
    MAX-ACCESS read-write
    STATUS    current
    DESCRIPTION
        "An advisory lock used to allow several cooperating
        command generator applications to coordinate their
        use of the SNMP set operation.

        This
        object is used for coarse-grain coordination.
        To achieve fine-grain coordination, one or more similar
        objects might be defined within each MIB group, as
        appropriate."
    ::= { snmpSet 1 }

-- conformance information

snmpMIBConformance
    OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
    OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }

-- compliance statements

-- ::= { snmpMIBCompliances 1 }    this OID is obsolete
snmpBasicCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The compliance statement for SNMPv2 entities which
        implement the SNMPv2 MIB.

        This compliance statement is replaced by
        snmpBasicComplianceRev2."
    MODULE -- this module

```

```

MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                    snmpBasicNotificationsGroup }

GROUP snmpCommunityGroup
DESCRIPTION
    "This group is mandatory for SNMPv2 entities which
    support community-based authentication."

::= { snmpMIBCompliances 2 }

snmpBasicComplianceRev2 MODULE-COMPLIANCE
STATUS current
DESCRIPTION
    "The compliance statement for SNMP entities which
    implement this MIB module."
MODULE -- this module
MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                    snmpBasicNotificationsGroup }

GROUP snmpCommunityGroup
DESCRIPTION
    "This group is mandatory for SNMP entities which
    support community-based authentication."

GROUP snmpWarmStartNotificationGroup
DESCRIPTION
    "This group is mandatory for an SNMP entity which
    supports command responder applications, and is
    able to reinitialize itself such that its
    configuration is unaltered."

::= { snmpMIBCompliances
3 }

-- units of conformance

-- ::= { snmpMIBGroups 1 }      this OID is obsolete
-- ::= { snmpMIBGroups 2 }      this OID is obsolete
-- ::= { snmpMIBGroups 3 }      this OID is obsolete

-- ::= { snmpMIBGroups 4 }      this OID is obsolete

snmpGroup OBJECT-GROUP
OBJECTS { snmpInPkts,
          snmpInBadVersions,
          snmpInASNParsingErrs,

```

```

        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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-MIB

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

SNMP-USM-DH-OBJECTS-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,
-- OBJECT-IDENTITY,
experimental, Integer32
FROM SNMPv2-SMI
TEXTUAL-CONVENTION
FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF
usmUserEntry
FROM SNMP-USER-BASED-SM-MIB
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 $\neq$ 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 }

usmDHParameters OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The public Diffie-Hellman parameters for doing
a Diffie-Hellman
key agreement for this device. This is encoded as an ASN.1
DHParameter per PKCS #3, section 9. E.g.

```
DHParameter ::= SEQUENCE {  
    prime INTEGER, -- p  
    base INTEGER, -- g  
    privateValueLength INTEGER OPTIONAL }
```

Implementors are encouraged to use either the values from
Oakley Group 1 or the values of from Oakley Group 2 as specified
in RFC-2409, The Internet Key Exchange, Section 6.1, 6.2 as the
default for this object. Other values may be used, but the
security properties of those values MUST be well understood and
MUST meet the requirements of PKCS #3 for the selection of
Diffie-Hellman primes.

In addition, any time usmDHParameters changes, all values of
type DHKeyChange will change and new random numbers MUST be
generated by the agent for each DHKeyChange object."

REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS #3,
RSA Laboratories,
November 1993
-- The Internet Key Exchange, RFC 2409, November 1998,
Sec 6.1, 6.2"
::= { usmDHPublicObjects 1 }

usmDHUserKeyTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table augments and extends the usmUserTable and provides 4 objects which exactly mirror the objects in that table with the textual convention of 'KeyChange'. This extension allows key changes to be done in a manner where the knowledge of the current secret plus knowledge of the key change data exchanges (e.g. via wiretapping) will not reveal the new key."

::= { usmDHPublicObjects 2 }

usmDHUserKeyEntry OBJECT-TYPE

SYNTAX UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of DHKeyChange objects which augment or replace the functionality of the KeyChange objects in the base table row."

AUGMENTS { usmUserEntry }

::= { usmDHUserKeyTable 1 }

UsmDHUserKeyEntry ::= SEQUENCE {

 usmDHUserAuthKeyChange DHKeyChange,

 usmDHUserOwnAuthKeyChange DHKeyChange,

 usmDHUserPrivKeyChange DHKeyChange,

 usmDHUserOwnPrivKeyChange DHKeyChange

}

usmDHUserAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Authentication Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 1 }

usmDHUserOwnAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change the agents own Authentication Key using a Diffie-Hellman

key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 2 }

usmDHUserPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."

::= { usmDHUserKeyEntry 3 }

usmDHUserOwnPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change the agent's own Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."

::= { usmDHUserKeyEntry 4 }

usmDHKickstartGroup OBJECT IDENTIFIER ::= { usmDHKeyObjects 2 }

usmDHKickstartTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHKickstartEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of mappings between zero or more Diffie-Helman key agreement values and entries in the usmUserTable. Entries in this table are created by providing the associated device with a Diffie-Helman public value and a usmUserName/usmUserSecurityName pair during initialization. How these values are provided is

outside the scope of this MIB, but could be provided manually, or through a configuration file. Valid public value/name pairs result

in the creation of a row in this table as well as the creation of an associated row (with keys derived as indicated) in the usmUserTable. The actual access the related usmSecurityName has is dependent on the entries in the VACM tables. In general, an implementor will specify one or more standard security names and will provide entries in the VACM tables granting various levels of access to those names. The actual content of the VACM table is beyond the scope of this MIB.

Note: This table is expected to be readable without authentication using the usmUserSecurityName 'dhKickstart'. See the conformance statements for details."

::= { usmDhKickstartGroup 1 }

usmDhKickstartEntry OBJECT-TYPE

SYNTAX UsmDhKickstartEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the usmDhKickstartTable. The agent SHOULD either delete this entry or mark it as inactive upon a successful SET of any of the KeyChange-typed objects in the usmUserEntry or upon a successful SET of any of the DhKeyChange-typed objects in the usmDhKeyChangeEntry where the related usmSecurityName (e.g. row of usmUserTable or row of 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 {  
    usmDHParameters  
}
```

STATUS current

DESCRIPTION

"The mandatory object for all MIBs which use the DHKeyChange textual convention."

```
::= { usmDHKeyMIBGroups 2 }
```

usmDHKeyKickstartGroup OBJECT-GROUP

```
OBJECTS {  
    usmDHKickstartMyPublic,  
    usmDHKickstartMgrPublic,  
    usmDHKickstartSecurityName  
}
```

STATUS current

DESCRIPTION

"The objects used for kickstarting one or more SNMPv3 USM associations via a configuration file or other out of band, non-confidential access."

```
::= { usmDHKeyMIBGroups 3 }
```

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-USM-DH-OBJECTS-MIB

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

DOT3-OAM-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32, Unsigned32,

Integer32, NOTIFICATION-TYPE

FROM SNMPv2-SMI

-- from [RFC2578]

TEXTUAL-CONVENTION, MacAddress, TimeStamp, TruthValue

FROM SNMPv2-TC

-- from [RFC2579]

CounterBasedGauge64

FROM HCNUM-TC

-- from [RFC2856]

ifIndex

FROM IF-MIB
-- from [RFC2863]
MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
FROM SNMPv2-CONF;

-- from [RFC2580]

dot3OamMIB MODULE-IDENTITY

LAST-UPDATED "200706140000Z" -- June 14,2007"

ORGANIZATION

"IETF Ethernet Interfaces and Hub MIB Working Group"

CONTACT-INFO

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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.

Copyright (c) The IETF Trust (2007). This version of
this MIB module is part of RFC 4878; See the RFC itself for
full legal notices. "

REVISION "200706140000Z" -- June 14, 2007"

DESCRIPTION "Initial version, published as RFC 4878."

::= { mib-2 158 }

--

-- Sections of the Ethernet OAM MIB

--

dot3OamNotifications OBJECT IDENTIFIER ::= { dot3OamMIB 0 }

dot3OamObjects OBJECT IDENTIFIER ::= { dot3OamMIB 1 }

dot3OamConformance OBJECT IDENTIFIER ::= { dot3OamMIB 2 }

--

-- Textual conventions for the OAM MIB

--

EightOTwoOui ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"24-bit Organizationally Unique Identifier. Information on
OUIs can be found in IEEE 802-2001 [802-2001], Clause 9."

SYNTAX OCTET STRING(SIZE(3))

-- *****

--

-- Ethernet OAM Control group

--

dot3OamTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the primary controls and status for the
OAM capabilities of an Ethernet-like interface. There will be
one row in this table for each Ethernet-like interface in the
system that supports the OAM functions defined in [802.3ah].
"

::= { dot3OamObjects 1 }

dot3OamEntry OBJECT-TYPE

SYNTAX Dot3OamEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table that contains information on the Ethernet OAM function for a single Ethernet like interface. Entries in the table are created automatically for each interface supporting Ethernet OAM. The status of the row entry can be determined from dot3OamOperStatus.

A dot3OamEntry is indexed in the dot3OamTable by the ifIndex object of the Interfaces MIB.

"

INDEX { ifIndex }

::= { dot3OamTable 1 }

Dot3OamEntry ::=

SEQUENCE {

dot3OamAdminState INTEGER,
dot3OamOperStatus INTEGER,
dot3OamMode INTEGER,
dot3OamMaxOamPduSize Unsigned32,
dot3OamConfigRevision Unsigned32,
dot3OamFunctionsSupported BITS

}

dot3OamAdminState OBJECT-TYPE

SYNTAX INTEGER {

enabled(1),
disabled(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object is used to provision the default administrative OAM mode for this interface. This object represents the desired state of OAM for this interface.

The dot3OamAdminState always starts in the disabled(2) state until an explicit management action or configuration information retained by the system causes a transition to the enabled(1) state. When enabled(1), Ethernet OAM will attempt to operate over this interface.

"

REFERENCE "[802.3ah], 30.3.6.1.2"

::= { dot3OamEntry 1 }

dot3OamOperStatus OBJECT-TYPE

SYNTAX INTEGER {
 disabled(1),
 linkFault(2),
 passiveWait(3),
 activeSendLocal(4),
 sendLocalAndRemote(5),
 sendLocalAndRemoteOk(6),
 oamPeeringLocallyRejected(7),
 oamPeeringRemotelyRejected(8),
 operational(9),
 nonOperHalfDuplex(10)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At initialization and failure conditions, two OAM entities on

the same full-duplex Ethernet link begin a discovery phase to determine what OAM capabilities may be used on that link. The progress of this initialization is controlled by the OA sublayer.

This value is always disabled(1) if OAM is disabled on this interface via the dot3OamAdminState.

If the link has detected a fault and is transmitting OAMPDUs with a link fault indication, the value is linkFault(2).

Also, if the interface is not operational (ifOperStatus is not up(1)), linkFault(2) is returned. Note that the object ifOperStatus may not be up(1) as a result of link failure or administrative

action (ifAdminState being down(2) or testing(3)).

The passiveWait(3) state is returned only by OAM entities in passive mode (dot3OamMode) and reflects the state in which the OAM entity is waiting to see if the peer device is OA capable. The activeSendLocal(4) value is used by active mode devices (dot3OamMode) and reflects the OAM entity actively trying to discover whether the peer has OAM capability but has not yet made that determination.

The state sendLocalAndRemote(5) reflects that the local OA

entity has discovered the peer but has not yet accepted or rejected the configuration of the peer. The local device can, for whatever reason, decide that the peer device is unacceptable and decline OAM peering. If the local OAM entity rejects the peer OAM entity, the state becomes oamPeeringLocallyRejected(7). If the OAM peering is allowed by the local device, the state moves

to

sendLocalAndRemoteOk(6). Note that both the sendLocalAndRemote(5) and oamPeeringLocallyRejected(7) states fall within the state SEND_LOCAL_REMOTE of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the local OAM client has actively rejected the peering or has just not indicated any decision yet. Whether a peering decision has been made is indicated via the local flags field in the OAMPDU (reflected in the aOAMLocalFlagsField of 30.3.6.1.10).

If the remote OAM entity rejects the peering, the state becomes oamPeeringRemotelyRejected(8). Note that both the sendLocalAndRemoteOk(6) and oamPeeringRemotelyRejected(8) states fall within the state SEND_LOCAL_REMOTE_OK of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the remote OAM client has rejected

the peering or has just not yet decided. This is indicated

via the remote flags field in the OAMPDU (reflected in the aOAMRemoteFlagsField of 30.3.6.1.11).

When the local OAM entity learns that both it and the remote OAM entity have accepted the peering, the state moves to operational(9) corresponding to the SEND_ANY state of the Discovery state diagram [802.3ah, Figure 57-5].

Since Ethernet OAM functions are not designed to work completely over half-duplex interfaces, the value nonOperHalfDuplex(10) is returned whenever Ethernet OAM is enabled (dot3OamAdminState is enabled(1)), but the interface is in half-duplex operation.

"

REFERENCE "[802.3ah], 30.3.6.1.4, 30.3.6.1.10, 30.3.6.1.11"
::= { dot3OamEntry 2 }

dot3OamMode OBJECT-TYPE

SYNTAX INTEGER {

```

        passive(1),
        active(2)
    }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "This object configures
the mode of OAM operation for this
Ethernet-like interface. OAM on Ethernet interfaces may be in
'active' mode or 'passive' mode. These two modes differ in
that active mode provides additional capabilities to initiate
monitoring activities with the remote OAM peer entity, while
passive mode generally waits for the peer to initiate OA
actions with it. As an example, an active OAM entity can put
the remote OAM entity in a loopback state, where a passive OA
entity cannot.

The default value of dot3OamMode is dependent on the type of
system on which this Ethernet-like interface resides. The
default value should be 'active(2)' unless it is known that
this system should take on a subservient role to the other
device connected over this interface.

Changing this value results in incrementing the configuration
revision field of locally generated OAMPDUs (30.3.6.1.12) and
potentially
re-doing the OAM discovery process if the
dot3OamOperStatus was already operational(9).
"
REFERENCE "[802.3ah], 30.3.6.1.3"

 ::= { dot3OamEntry 3 }

dot3OamMaxOamPduSize OBJECT-TYPE
SYNTAX Unsigned32 (64..1518)
UNITS "octets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The largest OAMPDU that the OAM entity supports. OA
entities exchange maximum OAMPDU sizes and negotiate to use
the smaller of the two maximum OAMPDU sizes between the peers.
This value is determined by the local implementation.
"
REFERENCE "[802.3ah], 30.3.6.1.8"
 ::= { dot3OamEntry 4 }

```

dot3OamConfigRevision OBJECT-TYPE

SYNTAX Unsigned32(0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The configuration revision of the OAM entity as reflected in the latest OAMPDU sent by the OAM entity. The config revision is used by OAM entities

to indicate that configuration changes

have occurred, which might require the peer OAM entity to re-evaluate whether OAM peering is allowed.

"

REFERENCE "[802.3ah], 30.3.6.1.12"

::= { dot3OamEntry 5 }

dot3OamFunctionsSupported OBJECT-TYPE

SYNTAX BITS {

 unidirectionalSupport(0),

 loopbackSupport(1),

 eventSupport(2),

 variableSupport(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The OAM functions supported on this Ethernet-like interface.

OAM consists of separate functional sets beyond the basic discovery process that is always required. These functional groups can be supported independently by any implementation.

These values are communicated to the peer via the local configuration field of Information OAMPDUs.

Setting 'unidirectionalSupport(0)' indicates that the
OA

entity supports the transmission of OAMPDUs on links that are operating in unidirectional mode (traffic flowing in one direction only). Setting 'loopbackSupport(1)' indicates that the OAM entity can initiate and respond to loopback commands. Setting 'eventSupport(2)' indicates that the OAM entity can send and receive Event Notification OAMPDUs. Setting 'variableSupport(3)' indicates that the OAM entity can send and receive Variable Request and Response OAMPDUs.

"

REFERENCE "[802.3ah], 30.3.6.1.6"


```
::= { dot3OamEntry 6 }
```

```
-- *****
```

```
--
```

```
-- Ethernet OAM Peer group
```

```
--
```

dot3OamPeerTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamPeerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about the OAM peer for a particular Ethernet-like interface. OAM entities communicate with a single OAM peer entity on Ethernet links on which OA is enabled and operating properly. There is one entry in this table for each entry in the dot3OamTable for which information on the peer OAM entity is available.

"

```
::= { dot3OamObjects 2 }
```

dot3OamPeerEntry OBJECT-TYPE

SYNTAX Dot3OamPeerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing information on the peer OA entity for a single Ethernet-like interface.

Note that there is at most one OAM peer for each Ethernet-like interface. Entries are automatically created when information about the OAM peer entity becomes available, and automatically deleted when the OAM peer entity is no longer in communication. Peer information is not available when dot3OamOperStatus is disabled(1), linkFault(2), passiveWait(3), activeSendLocal(4), or nonOperHalfDuplex(10).

"

INDEX { ifIndex }

```
::= { dot3OamPeerTable 1 }
```

Dot3OamPeerEntry ::=

SEQUENCE {

dot3OamPeerMacAddress MacAddress,

dot3OamPeerVendorOui EightOTwoOui,

dot3OamPeerVendorInfo Unsigned32,

```

dot3OamPeerMode          INTEGER,
dot3OamPeerMaxOamPduSize Unsigned32,
dot3OamPeerConfigRevision Unsigned32,
dot3OamPeerFunctionsSupported BITS
}

```

dot3OamPeerMacAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The MAC address of the peer OAM entity. The MAC address is derived from the most recently received OAMPDU.

"

REFERENCE "[802.3ah], 30.3.6.1.5."

::= { dot3OamPeerEntry 1 }

dot3OamPeerVendorOui OBJECT-TYPE

SYNTAX EightOTwoOui

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The

OUI of the OAM peer as reflected in the latest

Information OAMPDU received with a Local Information TLV. The OUI can be used to identify the vendor of the remote OAM 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
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, 30.3.6.1.14, 30.3.6.1.15"

```
::= { dot3OamLoopbackEntry 1 }
```

dot3OamLoopbackIgnoreRx OBJECT-TYPE

SYNTAX INTEGER { ignore(1), process(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Since OAM loopback is a disruptive operation (user traffic does not pass), this attribute provides a mechanism to provide controls

over whether received OAM loopback commands are processed or ignored. When the value is ignore(1), received loopback commands are ignored. When the value is process(2), OAM loopback commands are processed. The default value is to ignore loopback commands (ignore(1)).

"

REFERENCE "[802.3ah], REFERENCE 57.2.11, 30.3.61.14, 30.3.6.1.15"

```
::= { dot3OamLoopbackEntry 2 }
```

```
-- *****
```

```
--
```

```
-- Ethernet OAM Statistics group
```

```
--
```

dot3OamStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains statistics for the OAM function on a particular Ethernet-like interface. There is an entry in the table for every entry in the dot3OamTable.

The counters in this table are defined as 32-bit entries to match the counter size as defined in [802.3ah].

Given that

the OA protocol is a slow protocol, the counters increment at a slow rate.

"

```
::= { dot3OamObjects 4 }
```

dot3OamStatsEntry OBJECT-TYPE

SYNTAX Dot3OamStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing statistics information on the Ethernet OAM function for a single Ethernet-like interface. Entries are automatically created for every entry in the dot3OamTable. Counters are maintained across transitions in dot3OamOperStatus.

"

INDEX { ifIndex }

::= { dot3OamStatsTable 1 }

Dot3OamStatsEntry ::=

SEQUENCE {

dot3OamInformationTx Counter32,
dot3OamInformationRx Counter32,
dot3OamUniqueEventNotificationTx Counter32,
dot3OamUniqueEventNotificationRx Counter32,
dot3OamDuplicateEventNotificationTx

Counter32,

dot3OamDuplicateEventNotificationRx Counter32,
dot3OamLoopbackControlTx Counter32,
dot3OamLoopbackControlRx Counter32,
dot3OamVariableRequestTx Counter32,
dot3OamVariableRequestRx Counter32,
dot3OamVariableResponseTx Counter32,

dot3OamVariableResponseRx Counter32,
dot3OamOrgSpecificTx Counter32,
dot3OamOrgSpecificRx Counter32,
dot3OamUnsupportedCodesTx Counter32,
dot3OamUnsupportedCodesRx Counter32,
dot3OamFramesLostDueToOam Counter32

}

dot3OamInformationTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Information OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime. "

REFERENCE "[802.3ah], 30.3.6.1.20."

::= { dot3OamStatsEntry 1 }

dot3OamInformationRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Information OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.21."

::= { dot3OamStatsEntry 2 }

dot3OamUniqueEventNotificationTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count
of the number of unique Event OAMPDUs transmitted on
this interface. Event Notifications may be sent in duplicate
to increase the probability of successfully being received,

given the possibility that a frame may be lost in transit.
Duplicate Event Notification transmissions are counted by
dot3OamDuplicateEventNotificationTx.

A unique Event Notification OAMPDU is indicated as an Event
Notification OAMPDU with a Sequence Number field that is
distinct from the previously transmitted Event Notification
OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.22."

::= { dot3OamStatsEntry 3 }

dot3OamUniqueEventNotificationRx OBJECT-TYPE

SYNTAX Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"A count of the number of unique Event OAMPDUs received on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit. Duplicate Event Notification receptions are counted by dot3OamDuplicateEventNotificationRx.

A unique Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is distinct from the previously received Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.24."
::= { dot3OamStatsEntry 4 }

dot3OamDuplicateEventNotificationTx OBJECT-TYPE

SYNTAX
Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"A count of the number of duplicate Event OAMPDUs transmitted

on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously transmitted Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.23."

::= { dot3OamStatsEntry 5 }

dot3OamDuplicateEventNotificationRx OBJECT-TYPE

SYNTAX Counter32

UNITS

"frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of duplicate Event OAMPDUs received on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously received Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.25."

::= { dot3OamStatsEntry 6 }

dot3OamLoopbackControlTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"A count of the number of Loopback Control OAMPDUs transmitted

on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.26."

::= { dot3OamStatsEntry 7 }

dot3OamLoopbackControlRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Loopback Control OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.27."

::= { dot3OamStatsEntry 8 }

dot3OamVariableRequestTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Request OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.28."

::= { dot3OamStatsEntry 9 }

dot3OamVariableRequestRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Request OAMPDUs received on

this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"
REFERENCE "[802.3ah], 30.3.6.1.29."
::= { dot3OamStatsEntry
10 }

dot3OamVariableResponseTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Response OAMPDUs
transmitted on this interface.

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.30."

::= { dot3OamStatsEntry 11 }

dot3OamVariableResponseRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Response OAMPDUs received
on this interface.

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.31."

::= { dot3OamStatsEntry 12 }

dot3OamOrgSpecificTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Organization Specific OAMPDUs

transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.32."

::= { dot3OamStatsEntry 13 }

dot3OamOrgSpecificRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Organization Specific OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by

the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.33."

::= { dot3OamStatsEntry 14 }

dot3OamUnsupportedCodesTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of OAMPDUs transmitted on this interface with an unsupported op-code.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.18."

::= { dot3OamStatsEntry 15 }

dot3OamUnsupportedCodesRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of OAMPDUs received on this interface

with an unsupported op-code.

Discontinuities

of this counter can occur at re-initialization

of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.19."

::= { dot3OamStatsEntry 16 }

dot3OamFramesLostDueToOam OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of frames that were dropped by the OA
multiplexer. Since the OAM multiplexer has multiple inputs
and a single output, there may be cases where frames are
dropped due to transmit resource contention. This counter is
incremented whenever a frame is dropped by the OAM layer.
Note that any Ethernet frame, not just OAMPDUs, may be dropped
by the OAM layer. This can occur when an OAMPDU takes
precedence over a 'normal' frame resulting in the 'normal'
frame being dropped.

When this counter

is incremented, no other counters in this

MIB are incremented.

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.46."

::= { dot3OamStatsEntry 17 }

-- *****

--

-- Ethernet OAM Event Configuration group

--

dot3OamEventConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamEventConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Ethernet OAM includes the ability to generate and receive Event Notification OAMPDUs to indicate various link problems. This table contains the mechanisms to enable Event

Notifications and configure the thresholds to generate the standard Ethernet OAM events. There is one entry in the table for every entry in

dot3OamTable that supports OAM events

(where dot3OamFunctionsSupported includes the eventSupport bit set). The values in the table are maintained across changes to dot3OamOperStatus.

The standard threshold crossing events are:

- Errored Symbol Period Event. Generated when the number of symbol errors exceeds a threshold within a given window defined by a number of symbols (for example, 1,000 symbols out of 1,000,000 had errors).
- Errored Frame Period Event. Generated when the number of frame errors exceeds a threshold within a given window defined by a number of frames (for example, 10 frames out of 1000 had errors).
- Errored Frame Event. Generated when the number of frame errors exceeds a threshold within a given window defined by a period of time (for example, 10 frames in 1 second had errors).
- Errored Frame Seconds

Summary Event. Generated when the

number of errored frame seconds exceeds a threshold within a given time period (for example, 10 errored frame seconds within the last 100 seconds). An errored frame second is defined as a 1 second interval which had >0 frame errors.

There are other events (dying gasp, critical events) that are not threshold crossing events but which can be enabled/disabled via this table.

"

::= { dot3OamObjects 5 }

dot3OamEventConfigEntry OBJECT-TYPE

SYNTAX Dot3OamEventConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries are automatically created and deleted from this table, and exist whenever the OAM entity supports Ethernet OA

events (as indicated by the eventSupport bit in 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 "2³² 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

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

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

$$\begin{aligned} \text{dot3OamErrSymPeriodThreshold} = & \\ & ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) \end{aligned}$$

+ 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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-MIB

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

SYSAPPL-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,
Unsigned32, TimeTicks, Counter32, Gauge32
FROM SNMPv2-SMI
DateAndTime, TEXTUAL-CONVENTION
FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF
mib-2 FROM SNMPv2-SMI;

-- System Application MIB

sysApplMIB MODULE-IDENTITY

LAST-UPDATED "9710200000Z"

ORGANIZATION "IETF Applications MIB Working Group"

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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 SysApplInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an installed application
package."

INDEX { sysApplInstallPkgIndex }

::= { sysApplInstallPkgTable 1 }

SysApplInstallPkgEntry ::= SEQUENCE {

sysApplInstallPkgIndex Unsigned32,

sysApplInstallPkgManufacturer Utf8String,

sysApplInstallPkgProductName Utf8String,

sysApplInstallPkgVersion Utf8String,

sysApplInstallPkgSerialNumber

Utf8String,

sysApplInstallPkgDate DateAndTime,

sysApplInstallPkgLocation LongUtf8String

}

sysApplInstallPkgIndex OBJECT-TYPE

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

::= { sysApplInstallPkgEntry 1 }

sysApplInstallPkgManufacturer

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Manufacturer of the software application package."

::= { sysApplInstallPkgEntry 2 }

sysApplInstallPkgProductName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name assigned to the software application package by the Manufacturer."

::= { sysApplInstallPkgEntry 3 }

sysApplInstallPkgVersion OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The version number assigned to the application package by the manufacturer of the software."

::= { sysApplInstallPkgEntry 4 }

sysApplInstallPkgSerialNumber OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The serial number of the software assigned

by the

manufacturer."

::= { sysApplInstallPkgEntry 5 }

sysApplInstallPkgDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time this software application was installed
on the host."

::= { sysApplInstallPkgEntry 6 }

sysApplInstallPkgLocation OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The complete path name where the application package
is installed. For example, the value would be
'/opt/MyapplDir' if the application package was installed
in the /opt/MyapplDir directory."

::= { sysApplInstallPkgEntry 7 }

-- sysApplInstallElmtTable

-- The table describing the individual application package

-- elements (files and executables) installed on the host computer.

sysApplInstallElmtTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table details the individual application package
elements (files and executables) which comprise the
applications defined in the sysApplInstallPkg Table.
Each entry in this table has an index to the
sysApplInstallPkg table to identify the application
package of which it is a part. As a result, there may
be many entries in this table for each instance in the
sysApplInstallPkg Table.

Table entries are indexed by sysApplInstallPkgIndex,
sysApplInstallElmtIndex to facilitate retrieval of
all elements associated with a particular installed
application package."

::= { sysApplInstalled 2 }

sysApplInstallElmtEntry OBJECT-TYPE

SYNTAX SysApplInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row

describing an element of an installed

application. The element may be an executable or
non-executable file."

INDEX {sysApplInstallPkgIndex, sysApplInstallElmtIndex}

::= { sysApplInstallElmtTable 1 }

SysApplInstallElmtEntry ::= SEQUENCE {

sysApplInstallElmtIndex Unsigned32,

sysApplInstallElmtName Utf8String,

sysApplInstallElmtType INTEGER,

sysApplInstallElmtDate DateAndTime,

sysApplInstallElmtPath LongUtf8String,

sysApplInstallElmtSizeHigh Unsigned32,

sysApplInstallElmtSizeLow Unsigned32,

sysApplInstallElmtRole BITS,

sysApplInstallElmtModifyDate DateAndTime,

sysApplInstallElmtCurSizeHigh Unsigned32,

sysApplInstallElmtCurSizeLow Unsigned32

}

sysApplInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'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."

::= { sysApplInstallElmtEntry 1 }

sysApplInstallElmtName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { sysApplInstallElmtEntry 2 }

sysApplInstallElmtType OBJECT-TYPE

```
SYNTAX    INTEGER {  
    unknown(1),  
    nonexecutable(2),  
    operatingSystem(3), -- executable  
    deviceDriver(4),   -- executable  
    application(5)     -- executable  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of element that is
part of the installed
application."

::= { sysApplInstallElmtEntry 3 }

sysApplInstallElmtDate OBJECT-TYPE

```
SYNTAX    DateAndTime
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { sysApplInstallElmtEntry 4 }

sysApplInstallElmtPath OBJECT-TYPE

```
SYNTAX    LongUtf8String
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full directory path where this element is installed.
For example, the value would be '/opt/EMPuma/bin' for an
element installed in the directory '/opt/EMPuma/bin'.
Most application packages include information about the
elements contained in the package. In addition, elements
are typically installed in sub-directories under the
package installation directory. In cases where the
element path names are not included

in the package

information itself, the path can usually be determined
by a simple search of the sub-directories. If the
element is not installed in that location and there is
no other information available to the agent implementation,
then the path is unknown and null is returned."

::= { sysApplInstallElmtEntry 5 }

sysApplInstallElmtSizeHigh OBJECT-TYPE

```
SYNTAX    Unsigned32
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The installed file size in 2³² byte blocks. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes, this variable would have a value of 1; for a file with a total size of 4,294,967,295 bytes this variable would be 0."

::= { sysApplInstallElmtEntry 6 }

sysApplInstallElmtSizeLow OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The installed file size modulo 2³² 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 2³² 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 2³² 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 be

-- sysApplPastRunTblTimeLimit.

--

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

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

sysApplPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A history of the applications that have previously run
on the host

computer. An entry's information is moved to

this table from the sysApplRunTable when the invoked
application represented by the entry ceases to be running.

An agent implementation can determine that an application
invocation is no longer running by evaluating the running
elements of the application instance and their Roles as
defined by sysApplInstallElmtRole. Obviously, if there
are no running elements for the application instance,
then the application invocation is no longer running.

If any one of the REQUIRED elements is not running,
the application instance may be in the process of exiting.

Most agent implementations will wait until a second internal
poll has been completed to give the system time to either
restart partial failures or to give all elements time to
exit. If, after the second poll, there are REQUIRED
elements that

are not running, then the application

instance may be considered by the agent implementation
to no longer be running.

Entries remain in the sysApplPastRunTable until they

are aged out when either the table size reaches a maximum as determined by the sysApplPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplPastRunTblTimeLimit.

Entries in this table are indexed by sysApplInstallPkgIndex, sysApplPastRunIndex to facilitate retrieval of all past run invocations of a particular installed application."

::= { sysApplRun 2 }

sysApplPastRunEntry OBJECT-TYPE

SYNTAX SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an invocation of an application which was previously run and has terminated. The entry is basically copied from the sysApplRunTable

when the

application instance terminates. Hence, the entry's value for sysApplPastRunIndex is the same as its value was for sysApplRunIndex."

INDEX { sysApplInstallPkgIndex, sysApplPastRunIndex }

::= { sysApplPastRunTable 1 }

SysApplPastRunEntry ::= SEQUENCE {

sysApplPastRunIndex	Unsigned32,
sysApplPastRunStarted	DateAndTime,
sysApplPastRunExitState	INTEGER,
sysApplPastRunTimeEnded	DateAndTime

}

sysApplPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'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,

```

sysApplElmtRunIndex      Unsigned32,
sysApplElmtRunInstallID  Unsigned32,
sysApplElmtRunTimeStarted DateAndTime,
sysApplElmtRunState      RunState,
sysApplElmtRunName       LongUtf8String,
sysApplElmtRunParameters Utf8String,
sysApplElmtRunCPU        TimeTicks,
sysApplElmtRunMemory     Gauge32,
sysApplElmtRunNumFiles   Gauge32,
sysApplElmtRunUser       Utf8String
}

```

sysApplElmtRunInstallPkg OBJECT-TYPE

SYNTAX Unsigned32 (0..'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 sysApplInstallPkgIndex for the entry in the sysApplInstallPkgTable that corresponds to the installed application of which this process is a part.

If, however, the 'parent' application cannot be determined, (for example the process is not part of a particular installed application), the value for this object is then '0', signifying that this process cannot be related back to an application, and in turn, an installed software package."

::= { sysApplElmtRunEntry 1 }

sysApplElmtRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (0..'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)."

::= { sysApplElmtRunEntry 6 }

sysApplElmtRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process.

For example, '/opt/MYYpkg/bin/myyproc' would be returned for process 'myyproc' whose execution path is '/opt/MYYpkg/bin/myyproc'."

::= { sysApplElmtRunEntry 7 }

sysApplElmtRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysApplElmtRunEntry 8 }

sysApplElmtRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of centi-seconds of the total system's CPU resources consumed by this process.

Note that

on a multi-processor system, this value may have been incremented by more than one centi-second in one centi-second of real (wall clock) time."

::= { sysApplElmtRunEntry 9 }

sysApplElmtRunMemory OBJECT-TYPE

SYNTAX Gauge32

UNITS "Kbytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total amount of real system memory measured in Kbytes currently allocated to this process."

::= { sysApplElmtRunEntry 10 }

sysApplElmtRunNumFiles OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of regular files currently open by the process. Transport connections (sockets) should NOT be included in the calculation of this value, nor should operating system specific special file types."

::= { sysApplElmtRunEntry 11 }

sysApplElmtRunUser OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { sysApplElmtRunEntry 12 }

-- sysApplElmtPastRunTable

-- The sysApplElmtPastRunTable maintains a history of

-- processes which have previously executed on

-- the host as part of an application. Upon termination

-- of a process, the entry representing the process is removed from

-- the sysApplElmtRunTable and a corresponding entry is created in

-- this table provided that the process was part of an

-- identifiable application. If the process could not be associated

-- with an invoked application, no corresponding entry is created.

-- Hence, whereas the sysApplElmtRunTable contains an entry for

-- every process currently executing on the system, the

-- sysApplElmtPastRunTable only contains entries for processes

-- that previously executed as part of an invoked application.

--

-- Entries

remain in this table until they are aged out when

-- either the number of entries in the table reaches a

-- maximum as determined by sysApplElmtPastRunMaxRows, or

-- when an entry has aged to exceed a time limit as set by

-- sysApplElmtPastRunTblTimeLimit. When aging out entries,

-- the oldest entry, as determined by the value of

-- sysApplElmtPastRunTimeEnded, will be removed first.

--

-- The table is indexed by sysApplInstallPkgIndex (from the

-- sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and

-- sysApplElmtPastRunIndex to make it easy to locate all

-- previously executed processes of a particular invoked application

-- that has been installed on the system.

sysApplElmtPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table describes the processes which have previously executed on the host system as part of an application.

Each entry represents a process which has previously executed and is associated with the invoked application of which it was a part. Because an invoked application may involve more than one executable, it is possible to have multiple entries in this table for each application invocation. Entries are added to this table when the corresponding process in the sysApplElmtRun Table terminates.

Entries remain in this table until they are aged out when either the number of entries in the table reaches a maximum as determined by sysApplElmtPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplElmtPastRunTblTimeLimit. When aging out entries, the oldest entry, as determined by the value of sysApplElmtPastRunTimeEnded, will be removed first.

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

::= { sysApplRun 4 }

sysApplElmtPastRunEntry OBJECT-TYPE

SYNTAX SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing a process which was previously executed on this host as part of an installed application. The entry is basically copied from the sysApplElmtRunTable when the process terminates. Hence, the entry's value for sysApplElmtPastRunIndex is the same as its value was for sysApplElmtRunIndex. Note carefully: only those processes which could be associated with an identified application are included in this table."

```

INDEX { sysApplInstallPkgIndex,
sysApplElmtPastRunInvocID,
      sysApplElmtPastRunIndex }
::= { sysApplElmtPastRunTable 1 }

```

```

SysApplElmtPastRunEntry ::= SEQUENCE {
  sysApplElmtPastRunInvocID      Unsigned32,
  sysApplElmtPastRunIndex        Unsigned32,
  sysApplElmtPastRunInstallID    Unsigned32,
  sysApplElmtPastRunTimeStarted  DateAndTime,
  sysApplElmtPastRunTimeEnded    DateAndTime,
  sysApplElmtPastRunName         LongUtf8String,
  sysApplElmtPastRunParameters   Utf8String,
  sysApplElmtPastRunCPU          TimeTicks,
  sysApplElmtPastRunMemory       Unsigned32,
  sysApplElmtPastRunNumFiles     Unsigned32,
  sysApplElmtPastRunUser         Utf8String
}

```

sysApplElmtPastRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (1..'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 sysApplRunIndex for the corresponding application invocation in the sysApplRunTable. If the invoked application as a whole has terminated, it will be the same as the sysApplPastRunIndex."

::= { sysApplElmtPastRunEntry 1 }

sysApplElmtPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'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 sysApplElmtRunIndex which was removed from the sysApplElmtRunTable and moved to this table when the element terminated.

Note: entries in this table are indexed by sysApplElmtPastRunInvocID, sysApplElmtPastRunIndex.

The possibility exists, though unlikely, of a collision occurring by a new entry which was run by the same invoked application (InvocID), and was assigned the same process identification number (ElmtRunIndex) as an element which was previously run by the same invoked application.

Should this situation occur, the new entry replaces the old entry.

See Section: 'Implementation Issues - sysApplElmtPastRunTable Entry Collisions' for the conditions that would have to occur in order for a collision to occur."

::= { sysApplElmtPastRunEntry 2 }

sysApplElmtPastRunInstallID OBJECT-TYPE

SYNTAX Unsigned32 (1..'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 sysApplInstallElmtIndex for the application element

of which this entry represents a previously executed process."

::= { sysApplElmtPastRunEntry 3 }

sysApplElmtPastRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

::= { sysApplElmtPastRunEntry 4 }

sysApplElmtPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process ended."

::= { sysApplElmtPastRunEntry 5 }

sysApplElmtPastRunName OBJECT-TYPE

SYNTAX LongUtf8String
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The full path and filename of the process.
 For example, '/opt/MYYpkg/bin/myyproc' would
 be returned for process 'myyproc' whose execution
 path was '/opt/MYYpkg/bin/myyproc'."
 ::= { sysApplElmtPastRunEntry 6 }

sysApplElmtPastRunParameters

OBJECT-TYPE

SYNTAX Utf8String
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The starting parameters for the process."
 ::= { sysApplElmtPastRunEntry 7 }

sysApplElmtPastRunCPU OBJECT-TYPE

SYNTAX TimeTicks
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The last known number of centi-seconds of the total
 system's CPU resources consumed by this process.
 Note that on a multi-processor system, this value may
 increment by more than one centi-second in one
 centi-second of real (wall clock) time."
 ::= { sysApplElmtPastRunEntry 8 }

sysApplElmtPastRunMemory OBJECT-TYPE

SYNTAX Unsigned32 (0..'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."
 ::= { sysApplElmtPastRunEntry 9 }

sysApplElmtPastRunNumFiles 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 sysAppElemPastRunTable because of table size limitations as set in sysAppElemPastRunMaxRows. 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."

::= { sysApplRun 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 }
::= { sysApplRun 10 }

sysApplAgentPollInterval 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 }

::= { sysApplRun 11 }

-- sysApplMap Group

-- This group contains a table, the sysApplMapTable,

-- whose sole purpose is to provide a 'backwards'

-- mapping so that, given a known sysApplElmtRunIndex

-- (process identification number), the corresponding invoked

-- application (sysApplRunIndex), installed element

-- (sysApplInstallElmtIndex), and installed application

-- package (sysApplInstallPkgIndex) can be quickly determined.

--

-- The table will contain one entry for each process

-- currently running on the system.

--

-- A backwards mapping is extremely useful since the tables

-- in this MIB module are typically indexed with the

-- installed application package (sysApplInstallPkgIndex)

-- as the primary key, and on down

as required by the

-- specific table, with the process ID number (sysApplElmtRunIndex)

-- being the least significant key.

--

-- It is expected that management applications will use

-- this mapping table by doing a 'GetNext' operation with

-- the known process ID number (sysApplElmtRunIndex) as the partial

-- instance identifier. Assuming that there is an entry for

-- the process, the result should return a single columnar value,

-- the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex,

-- sysApplRunIndex, and sysApplInstallElmtIndex contained in the

-- instance identifier for the returned MIB object value.

--

-- NOTE: if the process can not be associated back to an

-- invoked application installed on the system, then the

-- value returned for the columnar value sysApplMapInstallPkgIndex

-- will be '0' and the instance portion of the object-identifier

-- will be the process ID number (sysApplElmtRunIndex) followed

-- by 0.0.

sysApplMapTable

OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The sole purpose of this table is to provide a 'backwards' mapping so that, given a known sysApplElmtRunIndex (process identification number), the corresponding invoked application (sysApplRunIndex), installed element (sysApplInstallElmtIndex), and installed application package (sysApplInstallPkgIndex) can be quickly determined.

This table will contain one entry for each process that is currently executing on the system.

It is expected that management applications will use this mapping table by doing a 'GetNext' operation with the known process ID number (sysApplElmtRunIndex) as the partial instance identifier. Assuming that there is an entry for the process, the result should return a single columnar

value, the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex, sysApplRunIndex, and sysApplInstallElmtIndex contained in the instance identifier for the returned MIB object value.

NOTE: if the process can not be associated back to an invoked application installed on the system, then the value returned for the columnar value sysApplMapInstallPkgIndex will be '0' and the instance portion of the object-identifier will be the process ID number (sysApplElmtRunIndex) followed by 0.0."

::= { sysApplMap 1 }

sysApplMapEntry OBJECT-TYPE

SYNTAX SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A logical row representing a process currently running on the system. This entry provides the index mapping from process identifier, back to the invoked application, installed element, and finally, the installed application package. The entry includes only one accessible columnar object, the sysApplMapInstallPkgIndex, but the invoked application and installed element can be determined from the instance identifier since they form part of the index clause."

INDEX { sysApplElmtRunIndex, sysApplElmtRunInvocID,

```

        sysApplMapInstallElmtIndex }
    ::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {
    sysApplMapInstallElmtIndex  Unsigned32,
    sysApplMapInstallPkgIndex   Unsigned32
}

sysApplMapInstallElmtIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'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,
    sysApplPastRunTblTimeLimit,
    sysApplElemPastRunMaxRows,
    sysApplElemPastRunTableRemItems,
    sysApplElemPastRunTblTimeLimit,
    sysApplAgentPollInterval }
STATUS current
DESCRIPTION
    "The system application
run group contains information
    about applications and associated elements which have
    run or are currently running on the host system."
::= { sysApplMIBGroups 2 }

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

```

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-MIB

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

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2

FROM SNMPv2-SMI -- [RFC2578]
TEXTUAL-CONVENTION
FROM SNMPv2-TC; -- [RFC2579]

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

CONTACT-INFO

"Postal: Internet Assigned Numbers Authority
Internet Corporation for Assigned Names
and Numbers
4676 Admiralty Way, Suite 330
Marina del Rey, CA 90292-6601
USA

Tel: +1 310-823-9358

E-Mail: iana@iana.org"

DESCRIPTION

"The MIB module defines the ITU Alarm
textual convention for objects expected to require
regular extension.

Copyright (C) The Internet Society (2004). The
initial version of this MIB module

was published

in RFC 3877. For full legal notices see the RFC
itself. Supplementary information may be available on:
<http://www.ietf.org/copyrights/ianamib.html>"

REVISION "200409090000Z" -- September 09, 2004

DESCRIPTION

"Initial version, published as RFC 3877."

::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.

IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are

reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a first-come, first served basis and will be assigned enumeration values starting with 1025.

Request should come in the form of well-formed

SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

While some effort will be taken to ensure that new probable causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more experts to help review requests.

See <http://www.iana.org>"

REFERENCE

"ITU Recommendation M.3100, 'Generic Network Information Model', 1995

ITU Recommendation X.733, 'Information Technology

- Open

Systems Interconnection - System Management: Alarm Reporting Function', 1992

ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

```
{
-- The following probable causes were defined in M.3100
aIS (1),
callSetUpFailure (2),
degradedSignal (3),
farEndReceiverFailure (4),
framingError (5),
lossOfFrame (6),
lossOfPointer (7),
lossOfSignal (8),
payloadTypeMismatch (9),
transmissionError (10),
remoteAlarmInterface (11),
```

- excessiveBER (12),
- pathTraceMismatch (13),
- unavailable (14),
- signalLabelMismatch (15),
- lossOfMultiFrame (16),
- receiveFailure (17),

- transmitFailure (18),
 - modulationFailure (19),
 - demodulationFailure (20),
 - broadcastChannelFailure (21),

- connectionEstablishmentError (22),
- invalidMessageReceived (23),
- localNodeTransmissionError (24),
- remoteNodeTransmissionError (25),
- routingFailure (26),

--Values 27-50 are reserved for communications alarm related

--probable causes

-- The following are used with equipment alarm.

- backplaneFailure (51),
- dataSetProblem (52),
- equipmentIdentifierDuplication (53),
- externalIFDeviceProblem (54),
- lineCardProblem (55),
- multiplexerProblem (56),
- nEIdentifierDuplication (57),
- powerProblem (58),
- processorProblem (59),
- protectionPathFailure (60),
- receiverFailure (61),
- replaceableUnitMissing (62),
- replaceableUnitTypeMismatch

(63),

- synchronizationSourceMismatch (64),
- terminalProblem (65),
- timingProblem (66),
- transmitterFailure (67),
- trunkCardProblem (68),
- replaceableUnitProblem (69),
- realTimeClockFailure (70),

--An equipment alarm to be issued if the system detects that the

--real time clock has failed

- antennaFailure (71),
- batteryChargingFailure (72),

- diskFailure (73),
- frequencyHoppingFailure (74),
- iODeviceError (75),
- lossOfSynchronisation (76),
- lossOfRedundancy (77),
- powerSupplyFailure (78),
- signalQualityEvaluationFailure (79),
- tranceiverFailure (80),
- protectionMechanismFailure (81),
- protectingResourceFailure (82),
- Values 83-100 are reserved for equipment alarm related probable
- causes
- The following are used with environmental alarm.
- airCompressorFailure (101),

- airConditioningFailure (102),
- airDryerFailure (103),
- batteryDischarging (104),
- batteryFailure (105),
- commercialPowerFailure (106),
- coolingFanFailure (107),
- engineFailure (108),
- fireDetectorFailure (109),
- fuseFailure (110),
- generatorFailure (111),
- lowBatteryThreshold (112),
- pumpFailure (113),
- rectifierFailure (114),
- rectifierHighVoltage (115),
- 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),
- lowTemperatue (130),
- lowWater (131),
- smoke (132),

- toxicGas (133),
- coolingSystemFailure (134),
- externalEquipmentFailure (135),
- externalPointFailure (136),
- Values 137-150 are reserved for environmental alarm related
- probable causes
- The following are used with Processing error alarm.
 - storageCapacityProblem (151),
 - memoryMismatch (152),
 - corruptData (153),
 - outOfCPUCycles (154),
 - sfwrEnvironmentProblem (155),
 - sfwrDownloadFailure (156),
 - 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):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IANA-ITU-ALARM-TC-MIB

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

PKTC-IETF-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY,
OBJECT-TYPE,
OBJECT-IDENTITY,
Unsigned32,
Counter32,
NOTIFICATION-TYPE,
mib-2
    FROM SNMPv2-SMI          -- [RFC2578]
TEXTUAL-CONVENTION,
RowStatus,
TruthValue
    FROM SNMPv2-TC          -- [RFC2579]
OBJECT-GROUP,
MODULE-COMPLIANCE,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF        -- [RFC2580]
InetAddressType,
InetAddress
    FROM INET-ADDRESS-MIB   -- [RFC4001]
```

sysDescr
FROM SNMPv2-MIB -- [RFC3418]
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]

pktnetMib MODULE-IDENTITY
LAST-UPDATED "200609180000Z" -- September 18, 2006
ORGANIZATION "IETF IP over Cable Data Network Working Group"
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Archive: <ftp://ftp.ietf.org/ietf-mail-archive/ipcdn>
Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com

DESCRIPTION

"This MIB module 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

PktnMtaDevProvEncryptAlg ::= 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.

=====

pktnMtaNotification OBJECT IDENTIFIER ::= { pktnIetfMtaMib 0 }

pktnMtaMibObjects OBJECT IDENTIFIER ::= { pktnIetfMtaMib 1 }

pktnMtaDevBase OBJECT IDENTIFIER ::= { pktnMtaMibObjects 1 }

pktnMtaDevServer OBJECT IDENTIFIER ::= { pktnMtaMibObjects 2 }

pktnMtaDevSecurity OBJECT IDENTIFIER ::= { pktnMtaMibObjects 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 }

pktcMtaDevSnmppEntity 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 PkctlMtaDevProvEncryptAlg

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 }

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 PkctlMtaDevProvEncryptAlg

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 pkctlMtaDevProvConfigKey is 64 bits, as defined in the PacketCable Security specification.

Other encryption types may be defined in future versions of this MIB module."

OBJECT pkctlMtaDevRealmOrgName

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 pkctlMtaDevRealmOrgName. 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 PkctlMtaDevProvEncryptAlg

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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-MTA-MIB

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

```
PKTC-IETF-SIG-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    MODULE-IDENTITY,
```

```
    OBJECT-TYPE,
```

```
    Integer32,
```

```
    Unsigned32,
```

```
    mib-2
```

```
    FROM SNMPv2-SMI          -- [RFC2578]
```


InetAddressType,
InetAddress,
InetPortNumber
 FROM INET-ADDRESS-MIB -- [RFC4001]
TEXTUAL-CONVENTION,
RowStatus,
TruthValue
 FROM SNMPv2-TC -- [RFC2579]

OBJECT-GROUP,
MODULE-COMPLIANCE
 FROM SNMPv2-CONF -- [RFC2580]
SnmAdminString
 FROM SNMP-FRAMEWORK-MIB -- [RFC3411]
ifIndex
 FROM IF-MIB -- [RFC2863]
Dscp
 FROM DIFFSERV-DSCP-TC; -- [RFC3289]

pkcIetfSigMib MODULE-IDENTITY
 LAST-UPDATED "200712180000Z" -- December 18, 2007
 ORGANIZATION "IETF IPCDN Working Group"
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Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com

DESCRIPTION

"This MIB module supplies the basic management objects for the PacketCable and IPCablecom Signaling protocols. This version of the MIB includes common signaling and Network Call Signaling

(NCS)-related signaling objects.

Copyright (C) The IETF Trust (2008). This version of this MIB module is part of RFC 5098; see the RFC itself for full legal notices."

REVISION "200712180000Z"

DESCRIPTION

"Initial version, published as RFC 5098."

::= { mib-2 169 }

-- Textual Conventions

TenthdBm ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This TEXTUAL-CONVENTION represents power levels that are normally expressed in dBm. Units are in tenths of a dBm; for example, -13.5 dBm will be represented as -135."

SYNTAX Integer32

PktcCodecType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This TEXTUAL-CONVENTION defines various types of codecs

that MAY be supported. The description for each enumeration is listed below:

Enumeration	Description

other	a defined codec not in the enumeration

unknown	a codec not defined by the PacketCable

Codec Specification

g729	ITU-T Recommendation G.729
reserved	for future use
g729E	ITU-T Recommendation G.729E
pcmu	Pulse Code Modulation u-law (PCMU)
g726at32	ITU-T Recommendation G.726-32 (32 kbit/s)
g728	ITU-T Recommendation G.728
pcma	Pulse Code Modulation a-law (PCMA)
g726at16	ITU-T Recommendation G.726-16 (16 kbit/s)
g726at24	ITU-T Recommendation G.726-24 (24 kbit/s)
g726at40	ITU-T Recommendation G.726-40 (40 kbit/s)
ilbc	IETF Internet low-bit rate codec
bv16	Broadcom BroadVoice16

The list of codecs is consistent with the IETF Real-Time Transport Protocol (RTP) Profile registry and

the RTP Map Parameters Table in PacketCable Audio/Video Codecs Specification [PKT-SP-CODEC]. The literal codec name for each codec is listed below:

Codec	Literal Codec Name
g729	G729
g729E	G729E
pcmu	PCMU
g726at32	G726-32
g728	G728
pcma	PCMA
g726at16	G726-16
g726at24	G726-24
g726at40	G726-40
ilbc	iLBC
bv16	BV16

The literal codec name is the second column of the table with codec RTP Map Parameters. The Literal Codec Name Column contains the codec name used in the local connection options (LCO) of the NCS messages create connection

(CRCX)/modify connection (MDCX) and is also used to identify the codec in the Call Management System (CMS) Provisioning Specification. The RTP Map Parameter column of the Table contains the string used in the media attribute line (a=) of the session description protocol (SDP) parameters in NCS messages."

SYNTAX INTEGER {

```

    other (1),
    unknown (2),
    g729 (3),
    reserved (4),
    g729E (5),
    pcmu (6),
    g726at32 (7),
    g728 (8),
    pcma (9),
    g726at16 (10),
    g726at24 (11),
    g726at40 (12),
    ilbc (13),
    bv16 (14)
}

```

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:

pkcSigDev	pkcSigDev	pkcSigDev
CodecComboIndex	CodecType	CodecMax
1	pcma	3
2	pcma	2
2	pcmu	1
3	pcma	1
3	pcmu	2
4	pcmu	3
5	pcma	1
5	g729	1
6	g729	2
7	pcmu	1
7	g729	1

An operator querying this table is able to determine all possible codec combinations the MTA is capable of simultaneously supporting.

This table MUST NOT include non-voice codecs."

::=
{ pktcSigDevObjects 1 }

pktcSigDevCodecEntry OBJECT-TYPE

SYNTAX PktcSigDevCodecEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Each entry represents the maximum number of active connections with a particular codec the MTA is capable of supporting. Each row is indexed by a composite key consisting of a number enumerating the particular codec combination and the codec type."

INDEX { pktcSigDevCodecComboIndex, pktcSigDevCodecType }

::= { pktcSigDevCodecTable 1 }

PktcSigDevCodecEntry ::= SEQUENCE {

pktcSigDevCodecComboIndex Unsigned32,

pktcSigDevCodecType PktcCodecType,

pktcSigDevCodecMax Unsigned32

}

pktcSigDevCodecComboIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The index value that enumerates a particular codec combination in the pktcSigDevCodecTable."

::=
{ pktcSigDevCodecEntry 1 }

pktcSigDevCodecType OBJECT-TYPE

SYNTAX PktcCodecType

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" A codec type supported by this MTA."

::= { pktcSigDevCodecEntry 2 }

pktcSigDevCodecMax OBJECT-TYPE

SYNTAX Unsigned32(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" The maximum number of simultaneous sessions of a particular codec that the MTA can support."

::= { pktcSigDevCodecEntry 3 }

--

-- These are the common signaling-related definitions that affect
-- the entire MTA device.

--

pktcSigDevEchoCancellation OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies if the device is capable of echo cancellation. The MTA MUST set this MIB object to a value of true(1) if it is capable of echo cancellation, and a value of false(2) if not."

::= { pktcSigDevObjects 2 }

pktcSigDevSilenceSuppression OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies if the device is capable of silence suppression (as a result of Voice Activity Detection). The MTA MUST set this MIB object to a value of true(1) if it is capable of silence suppression, and a value of false(2) if not."

::= { pktcSigDevObjects 3 }

pktcSigDevCidSigProtocol OBJECT-TYPE

SYNTAX PktcSubscriberSideSigProtocol

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object is used to configure the subscriber-line protocol used for signaling on-hook caller id information.

Different countries define different caller id signaling protocols to support caller identification.

Setting this object at a value fsk(1) sets the subscriber

line protocol to be
Frequency Shift Keying (FSK).

Setting this object at a value dtmf(2) sets the subscriber
line protocol to be Dual-Tone Multi-Frequency (DTMF).

The value of this MIB object MUST NOT persist across MTA
reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { fsk }

::= { pktcSigDevObjects 4 }

pktcSigDevR0Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 0 (a user-defined
field).

The value of this MIB object MUST NOT persist across MTA
reboots."

::= { pktcSigDevObjects 5 }

pktcSigDevR1Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 1 (a user-defined
field).

The value of this MIB object MUST NOT persist across MTA
reboots."

::= { pktcSigDevObjects 6 }

pktcSigDevR2Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 2 (a user-defined
field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 7 }

pktcSigDevR3Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 3 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 8 }

pktcSigDevR4Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 4 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 9 }

pktcSigDevR5Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 5 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 10 }

pktcSigDevR6Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 6 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 11 }

pktcSigDevR7Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 7 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 12 }

pktcSigDevRgCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence rg (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 13 }

pktcSigDevRsCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence rs (a user-defined field). The MTA MUST reject any attempt to make this object repeatable.

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 14 }

pktcSigDefCallSigDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"

The default value used in the IP header for setting the
Differentiated Services Code Point (DSCP) value for call

signaling.

The value of this MIB object MUST NOT persist across MTA
reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 15 }

pktcSigDefMediaStreamDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the default value used in the IP
header for setting the Differentiated Services Code Point
(DSCP) value for media stream packets. The MTA MUST NOT
update this object with the value supplied by the CMS in
the NCS messages (if present). Any currently active
connections are not affected by updates to this object.
When the value of this object is updated by SNMP, the MTA
MUST use the new value as a default starting only from
new connections.

The value of this MIB object MUST NOT persist across MTA
reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 16 }

--

-- pktcSigCapabilityTable - This table defines the valid signaling

-- types supported by this MTA.

--

pktcSigCapabilityTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry OBJECT-TYPE

SYNTAX PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" Entries in pktcMtaDevSigCapabilityTable - list of supported signaling types, versions, and vendor extensions

for this MTA. Each entry in the list provides for one signaling type and version combination. If the device supports multiple versions of the same signaling type, it

will require multiple entries."

INDEX { pktcSigCapabilityIndex }

::= { pktcSigCapabilityTable 1 }

PktcSigCapabilityEntry ::= SEQUENCE {

pktcSigCapabilityIndex Unsigned32,

pktcSigCapabilityType PktcSigType,

pktcSigCapabilityVersion SnmpAdminString,

pktcSigCapabilityVendorExt SnmpAdminString

}

pktcSigCapabilityIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The index value that uniquely identifies an entry in the pktcSigCapabilityTable."

::= { pktcSigCapabilityEntry 1 }

pktcSigCapabilityType OBJECT-TYPE

SYNTAX PktcSigType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object identifies the type of signaling used. This value has to be associated with a single signaling version."

::= { pktcSigCapabilityEntry

2 }

pktcSigCapabilityVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" Provides the version of the signaling type - reference

pktcSigCapabilityType. Examples would be 1.0 or 2.33 etc."

::= { pktcSigCapabilityEntry 3 }

pktcSigCapabilityVendorExt OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" The vendor extension allows vendors to provide a list of

additional capabilities.

The syntax for this MIB object in ABNF ([RFC5234]) is specified to be zero or more occurrences of vendor extensions, as follows:

pktcSigCapabilityVendorExt = *(vendor-extension)

vendor-extension = (ext symbol alphanum) DQUOTE ; DQUOTE

ext = DQUOTE %x58 DQUOTE

symbol = (DQUOTE %x2D DQUOTE)/(DQUOTE %x2D DQUOTE)

alphanum = 1*6(ALPHA/DIGIT)

"

::= { pktcSigCapabilityEntry 4 }

pktcSigDefNcsReceiveUdpPort OBJECT-TYPE

SYNTAX InetPortNumber (1025..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA User Datagram Protocol (UDP) receive port that is being used for NCS call signaling.

This object should only be changed by the configuration file.

Unless changed via configuration, this MIB object MUST reflect a value of '2427'."

REFERENCE

"PacketCable NCS Specification"

::= { pktcSigDevObjects 18 }

pkcSigPowerRingFrequency 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"

::= { pkcSigDevObjects 19 }

pkcSigPulseSignalTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigPulseSignalEntry

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, pkcSigDevCidMode 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}
 ::= {pkcSigDevObjects 21 }

pkcSigDevCidAfterRing 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 pkcSigDevCidMode 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
duringringingETS	any value (not used)
dtAsETS	any value (not used)
rpAsETS	650 ms
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt to set this object while the value of
pktcSigDevCidMode is not 'rpAsETS' will result in an
'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 24 }

pktcSigDevRingAfterCID OBJECT-TYPE

SYNTAX Unsigned32 (0|50..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the complete transmission of the FSK or DTMF containing the caller

id information and the start of the first ring

pattern. It is only used when pktcSigDevCidMode is set to a value of 'dtAsETS', 'rpAsETS', 'lrAsETS' or 'lrETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value
duringringingETS	any value (not used)
dtAsETS	250 ms
rpAsETS	250 ms
lrAsETS	250 ms
lrETS	250 ms

An attempt to set this object while the value of pktcSigDevCidMode is not 'dtAsETS', 'rpAsETS', 'lrAsETS', or 'lrETS' will result in an 'inconsistent value' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 25 }

pktcSigDevCidDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS). This object is only used when pktcSigDevCidMode is set to a value of 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value
duringringingETS	any value (not used)
dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	250 ms
lrETS	any value (not used)

An attempt to set this object while the value of pktcSigDevCidMode is not lrAsETS will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 26 }

pktcSigDevVmwiMode OBJECT-TYPE

SYNTAX INTEGER {
dtAsETS(1),
rpAsETS(2),
lrAsETS(3),
osi(4),
lrETS(5)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" For visual message waiting indicator (VMWI), pktcSigDevVmwiMode selects the alerting signal method. For

the dtAsETS, rpAsETS, lrAsETS, osi, and lrETS methods, the FSK containing the VMWI information is sent after an alerting signal.

For the dtAsETS method,
the FSK, or DTMF
is sent after the Dual Tone Alert Signal. For the rpAsETS method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first, then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the OSI method, the FSK or DTMF is sent after the Open Switching Interval.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { rpAsETS }
 ::= {pktcSigDevObjects 27 }

pktcSigDevVmwiAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Dual Tone Alert Signal (DT-AS) and the start of the transmission of the

FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

Value of pktcSigDevVmwiMode	Default value

dtAsETS	50 ms
rpAsETS	any value (not used)
lrAsETS	50 ms
lrETS	any value (not used)

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'dtAsETS' or 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 28
}

pktcSigDevVmwiAfterRPAS OBJECT-TYPE
SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

Value of pktcSigDevVmwiMode	Default value
dtAsETS	any value (not used)
rpAsETS	650 ms
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt

to set this object while the value of
pktcSigDevVmwiMode is not 'rpAsETS' will result in an
'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 29 }

pktcSigDevVmwiDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (0|50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the
Line Reversal and the start of the Dual Tone Alert Signal
(DT-AS) for VMWI information. This object is only used
when pktcSigDevVmwiMode is set to a value of 'lrAsETS'.

The following table defines the default values
for this MIB object, depending on the signal type
(pktcSigDevVmwiMode), and MUST be followed:

Value of pktcSigDevVmwiMode

Default value

dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	250 ms
lrETS	any value (not used)

An attempt to set this object while the value of
pktcSigDevVmwiMode is not 'lrAsETS' will result in an
'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 30 }

pkcSigDevRingCadenceTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigDevRingCadenceEntry

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"

::= { pkcSigDevObjects 31 }

pkcSigDevRingCadenceEntry OBJECT-TYPE

SYNTAX PkcSigDevRingCadenceEntry

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 { pkcSigDevRingCadenceIndex }

::= { pkcSigDevRingCadenceTable 1 }

PkcSigDevRingCadenceEntry ::= 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."

```
::= { 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 { 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

pkcSigDevCidMode 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 }
::= {pkcSigDevObjects 34 }

pkcSigDevCidDtmfStartCode 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> <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 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> <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> <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> <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 }

pkcSigEndPntConfigPartialDialTO 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 }

::= { pkcSigEndPntConfigEntry 3 }

pkcSigEndPntConfigCriticalDialTO 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 }

::= { pkcSigEndPntConfigEntry 4 }

pkcSigEndPntConfigBusyToneTO 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 }

pktcSigEndPntConfigRingringTO 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 }

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,
pktcSigDevVmwMode,
pktcSigCapabilityType,
pktcSigCapabilityVersion,
pktcSigCapabilityVendorExt,
pktcSigDefNcsReceiveUdpPort
}

```

STATUS current

DESCRIPTION

"Group of MIB objects containing signaling configuration information that is applicable per-device."

::= { pktcSigGroups 1 }

pktcSigEndpointGroup OBJECT-GROUP

OBJECTS {

```

pktcSigEndPntConfigCallAgentId,
pktcSigEndPntConfigCallAgentUdpPort,

```

```

pktcSigEndPntConfigPartialDialTO,
pktcSigEndPntConfigCriticalDialTO,
pktcSigEndPntConfigBusyToneTO,
pktcSigEndPntConfigDialToneTO,
pktcSigEndPntConfigMessageWaitingTO,
pktcSigEndPntConfigOffHookWarnToneTO,
pktcSigEndPntConfigRingingTO,
pktcSigEndPntConfigRingBackTO,
pktcSigEndPntConfigReorderToneTO,
pktcSigEndPntConfigStutterDialToneTO,
pktcSigEndPntConfigTSMax,
pktcSigEndPntConfigMax1,
pktcSigEndPntConfigMax2,
pktcSigEndPntConfigMax1QEnable,
pktcSigEndPntConfigMax2QEnable,
pktcSigEndPntConfigMWD,
pktcSigEndPntConfigTdinit,
pktcSigEndPntConfigTdmin,
pktcSigEndPntConfigTdmax,
pktcSigEndPntConfigRtoMax,
pktcSigEndPntConfigRtoInit,
pktcSigEndPntConfigLongDurationKeepAlive,
pktcSigEndPntConfigThist,
pktcSigEndPntConfigStatus,

```

```

pktcSigEndPntConfigCallWaitingMaxRep,

```

```

pktcSigEndPntConfigCallWaitingDelay,
pktcSigEndPntStatusCallIpAddressType,
pktcSigEndPntStatusCallIpAddress,
pktcSigEndPntStatusError
}
STATUS current
DESCRIPTION
    "Group of MIB objects containing signaling configuration
    information that is applicable per-endpoint."
::= { pktcSigGroups 2 }

```

pktcInternationalGroup OBJECT-GROUP

```

OBJECTS {
pktcSigEndPntConfigMinHookFlash,
pktcSigEndPntConfigMaxHookFlash,
pktcSigEndPntConfigPulseDialInterdigitTime,
pktcSigEndPntConfigPulseDialMinMakeTime,
pktcSigEndPntConfigPulseDialMaxMakeTime,
pktcSigEndPntConfigPulseDialMinBreakTime,
pktcSigEndPntConfigPulseDialMaxBreakTime,
pktcSigDevRingCadence,
pktcSigDevCidSigProtocol,
pktcSigDevCidDelayAfterLR,
pktcSigDevCidDtmfStartCode,
pktcSigDevCidDtmfEndCode,
pktcSigDevVmwiSigProtocol,
pktcSigDevVmwiDelayAfterLR,
pktcSigDevVmwiDtmfStartCode,
pktcSigDevVmwiDtmfEndCode,
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,

```

pkcSigDevR3Cadence,
pkcSigDevR4Cadence,
pkcSigDevR5Cadence,

pkcSigDevR6Cadence,
pkcSigDevR7Cadence,
pkcSigDevRgCadence,
pkcSigDevRsCadence,
pkcSigPulseSignalFrequency,
pkcSigPulseSignalDbLevel,
pkcSigPulseSignalDuration,
pkcSigPulseSignalPulseInterval,
pkcSigPulseSignalRepeatCount,
pkcSigDevRingCadence
}
STATUS current
DESCRIPTION
"Group of Objects to support the E line package."
::= { pkcSigGroups 5 }

END

Found in path(s):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-SIG-MIB

1.314 yang-parser-api 0.8.4-Beryllium-SR4

1.314.1 Available under license :

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1.315 commons-http-client 3.0.1

1.315.1 Available under license :

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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 \$

```

* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/MalformedChallengeException.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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/URLConnection.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/HttpAuthenticator.java,v 1.19 2004/10/06
17:32:04 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-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/MethodRetryHandler.java,v 1.5 2004/07/05 22:46:58 olegk Exp \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/MethodRetryHandler.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 \$


```

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/InvalidCredentialsException.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 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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```

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/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/protocol/SecureProtocolSocketFactory.java,v 1.6
2004/04/18 23:51:38 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-

jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java

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/*

* \$HeadURL:

https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/java/org/apache/commons/httpclient/util/LangUtils.java \$

* \$Revision: 354155 \$

* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java,v 1.7

2004/04/18 23:51:37 jsdever Exp \$

* \$Revision: 155418 \$

* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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* /commons-httpclient-3-0-1-sources-3-

jar/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnection.java,v 1.107 2005/01/14 21:30:59

olegk Exp \$

* \$Revision: 327792 \$

* \$Date: 2005-10-23 09:34:28 -0400 (Sun, 23 Oct 2005) \$

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```

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpConnection.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/StringPart.java,v 1.11 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 155418 $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/StringPart.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/CookieSpecBase.java,v 1.28 2004/11/06
 19:15:42 mbecke Exp $
 * $Revision: 190485 $
 * $Date: 2005-06-13 15:04:56 -0400 (Mon, 13 Jun 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/cookie/CookieSpecBase.java
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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
```

commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/Part.java,v 1.16 2005/01/14

21:16:40 olegk Exp \$

* \$Revision: 332125 \$

* \$Date: 2005-11-09 14:41:40 -0500 (Wed, 09 Nov 2005) \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/HttpRecoverableException.java,v 1.15 2004/07/05

22:46:58 olegk Exp \$

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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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ConnectionPoolTimeoutException.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/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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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthState.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/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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* /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/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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```

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/DateParseException.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/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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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/NTCredentials.java

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

```
/*
 * $Header: $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
 *
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Found in path(s):

* /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/auth/AuthChallengeParser.java,v 1.10 2004/05/13
04:02:00 mbecke Exp $

```

```

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* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthChallengeParser.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/multipart/PartSource.java,v 1.6 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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Found in path(s):

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* /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/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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* /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/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke Exp \$

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* /commons-httpclient-3-0-1-sources-3-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/HttpConnectionManager.java,v 1.24 2004/07/05 22:46:58 olegk Exp \$

```

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* /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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/DigestScheme.java

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/UsernamePasswordCredentials.java,v 1.14 2004/04/18
23:51:35 jsdever Exp $
* $Revision: 326707 $
* $Date: 2005-10-19 16:51:46 -0400 (Wed, 19 Oct 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/UsernamePasswordCredentials.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/BasicScheme.java,v 1.17 2004/05/13 04:02:00 mbecke Exp \$

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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 \$

```

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NoHttpResponseException.java,v 1.1 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/NoHttpResponseException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46
olegk Exp $
* $Revision: 155418 $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/ExceptionUtil.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java,v 1.2 2004/04/18 23:51:38 jsdever Exp \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever

```

Exp $
* $Revision: 155418 $
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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/HttpURL.java,v 1.18 2004/09/30 17:26:41 oglueck
Exp $
* $Revision: 358634 $
* $Date: 2005-12-22 16:23:15 -0500 (Thu, 22 Dec 2005) $
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/EntityEnclosingMethod.java,v 1.39
2004/07/03 14:27:03 olegk Exp $
 * $Revision: 161963 $
 * $Date: 2005-04-19 16:25:06 -0400 (Tue, 19 Apr 2005) $
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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/EntityEnclosingMethod.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/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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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/RequestEntity.java

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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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/WireLogOutputStream.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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* /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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/cookie/CookieSpec.java
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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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ContentLengthInputStream.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/HttpClient.java,v 1.98 2004/10/07 16:14:15 olegk Exp
$
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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```

* /commons-httpclient-3-0-1-sources-3-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/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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* /commons-httpclient-3-0-1-sources-3-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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/Cookie.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/RedirectException.java,v 1.2 2004/04/18 23:51:35
jsdever Exp \$

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* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/RedirectException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectTimeoutException.java,v 1.5 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ConnectTimeoutException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55
olegk Exp $
* $Revision: 291181 $
* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ChunkedInputStream.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp \$

* \$Revision: 155418 \$

* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/Header.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/methods/StringRequestEntity.java,v 1.3 2004/07/03 14:27:03 olegk Exp \$

* \$Revision: 356822 \$

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* $Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/StringRequestEntity.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java,v 1.47
2004/12/21 11:27:55 olegk Exp $
* $Revision: 366716 $
* $Date: 2006-01-07 08:04:58 -0500 (Sat, 07 Jan 2006) $
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* /commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java,v 1.9
2004/09/13 16:25:20 olegk Exp $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/URI.java,v 1.47 2004/05/13 04:03:25 mbecke Exp \$
* \$Revision: 372560 \$
* \$Date: 2006-01-26 11:07:06 -0500 (Thu, 26 Jan 2006) \$
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/*
* \$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

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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/auth/AuthenticationException.java,v 1.6 2004/05/13
04:02:00 mbecke Exp $
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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthenticationException.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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/PartBase.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/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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Found in path(s):

*/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpClientError.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/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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```

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpParser.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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* /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/methods/multipart/FilePartSource.java,v 1.10
2004/04/18 23:51:37 jsdever Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
 *
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.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/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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* /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/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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* /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/methods/ExpectContinueMethod.java,v 1.13
2004/05/08 10:12:08 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/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/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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* /commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java
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/*
* $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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* /commons-httpclient-3-0-1-sources-3-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/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp
$
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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```

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ProxyHost.java

```

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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 $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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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):

* /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/util/IdleConnectionTimeoutThread.java,v 1.2
2004/05/13 02:40:36 mbecke Exp $
* $Revision: 354829 $
* $Date: 2005-12-07 14:05:13 -0500 (Wed, 07 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java
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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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* /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/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34
jsdever Exp $
 * $Revision: 291181 $
 * $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
```

commons/httpclient/src/java/org/apache/commons/httpclient/HttpState.java,v 1.38 2004/12/20 11:50:54 olegk Exp

\$

* \$Revision: 377704 \$

* \$Date: 2006-02-14 06:48:29 -0500 (Tue, 14 Feb 2006) \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpState.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22

mbecke Exp \$

* \$Revision: 345737 \$

* \$Date: 2005-11-20 07:30:47 -0500 (Sun, 20 Nov 2005) \$

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/*
* $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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpMethodBase.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/IdleConnectionHandler.java,v 1.2 2004/05/13

02:40:36 mbecke Exp \$

* \$Revision: 155418 \$

* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

*

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/IdleConnectionHandler.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/HttpHost.java,v 1.3 2005/01/14 21:16:40 olegk Exp \$

* \$Revision: 157457 \$

* \$Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpHost.java

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java,v 1.10
2004/05/13 04:01:22 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31 olegk Exp \$

* \$Revision: 356822 \$

* \$Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) \$

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* /commons-httpclient-3-0-1-sources-3-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/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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* /commons-httpclient-3-0-1-sources-3-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/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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* /commons-httpclient-3-0-1-sources-3-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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpStatus.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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HostParams.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

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Exp $
* $Revision: 224451 $
* $Date: 2005-07-23 06:23:59 -0400 (Sat, 23 Jul 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/DateUtil.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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpMethodRetryHandler.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionParams.java,v 1.6 2004/09/15
20:32:21 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* \$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 \$
* \$Revision: 155418 \$
* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/OptionsMethod.java,v 1.15 2004/04/18

23:51:37 jsdever Exp \$

* \$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/ProtocolException.java,v 1.4 2004/05/13 04:03:25

mbecke Exp \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ProtocolException.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/InputStreamRequestEntity.java,v 1.4
2004/05/17 21:46:03 olegk Exp $
* $Revision: 224452 $
* $Date: 2005-07-23 06:33:39 -0400 (Sat, 23 Jul 2005) $
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScheme.java,v 1.12 2004/05/13 04:02:00
mbecke Exp \$
* \$Revision: 155418 \$
* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthScheme.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/cookie/NetscapeDraftSpec.java,v 1.11 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/methods/multipart/FilePart.java,v 1.19 2004/04/18
23:51:37 jsdever Exp $
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* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/FilePart.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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java
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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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*/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/DefaultMethodRetryHandler.java,v 1.4 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/DefaultMethodRetryHandler.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/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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* /commons-httpclient-3-0-1-sources-3-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/HttpException.java,v 1.19 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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpException.java
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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 $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/Wire.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/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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* /commons-httpclient-3-0-1-sources-3-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/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19
olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/GetMethod.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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/RFC2617Scheme.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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* /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/methods/PutMethod.java,v 1.26 2004/04/18 23:51:37

jsdever Exp \$

* \$Revision: 155418 \$

* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/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/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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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpVersion.java,v 1.6 2004/12/20 19:52:50 olegk
Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpVersion.java
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
```

commons/httpclient/src/java/org/apache/commons/httpclient/methods/DeleteMethod.java,v 1.14 2004/04/18

23:51:37 jsdever Exp \$

* \$Revision: 155418 \$

* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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/*

* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpClientParams.java,v 1.7 2004/05/13

04:01:22 mbecke Exp \$

* \$Revision: 354155 \$

* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpClientParams.java
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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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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeException.java,v 1.2 2004/04/18
 23:51:36 jsdever Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
```


commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java,v 1.10

2004/05/13 04:01:22 mbecke Exp \$

* \$Revision: 155418 \$

* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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/*

* \$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):

```

* /commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/Protocol.java,v 1.10 2004/04/18 23:51:38
jsdever Exp $
* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/Protocol.java
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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLMScheme.java,v 1.21 2004/05/13 04:02:00
mbecke Exp $
 * $Revision: 156690 $
 * $Date: 2005-03-09 16:40:30 -0500 (Wed, 09 Mar 2005) $
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*  
*/

/** An implementation of the Microsoft proprietary NTLM authentication scheme. For a detailed
 * explanation of the NTLM scheme please see <a href="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):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/NTLMScheme.java

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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java,v 1.16
2004/11/20 21:48:47 mbecke Exp $
 * $Revision: 404762 $
 * $Date: 2006-05-07 10:07:41 -0400 (Sun, 07 May 2006) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java

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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk
Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/URIUtil.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):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthPolicy.java

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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36
jsdever Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ProxyClient.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/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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* /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/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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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpMethodDirector.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/DefaultHttpParams.java,v 1.9 2004/12/21
23:15:21 olegk Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpsURL.java,v 1.11 2004/09/30 17:26:41 oglueck
Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp
\$
* \$Revision: 354155 \$
* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/StatusLine.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 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/PostMethod.java
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java,v 1.3
2004/05/13 02:26:08 mbecke Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/SimpleHttpConnectionManager.java,v 1.23
 2004/10/16 22:40:08 mbecke Exp $
 * $Revision: 329914 $
 * $Date: 2005-10-31 16:24:47 -0500 (Mon, 31 Oct 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/SimpleHttpConnectionManager.java
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/*
* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/MultipartPostMethod.java,v 1.27 2004/10/06
03:39:59 mbecke Exp \$
* \$Revision: 155418 \$
* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$
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/*

* \$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 \$

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Found in path(s):

* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/HttpAuthRealm.java

1.316 spring-security-taglibs 3.2.4.RELEASE

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Found in path(s):

```

* /spring-security-taglibs-3-2-4-release-sources-1-
jar/org/springframework/security/taglibs/csrf/CsrfMetaTagsTag.java
* /spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/TagLibConfig.java
* /spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/CsrfInputTag.java
*
/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/AbstractCsrfTag.java
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Found in path(s):

```

* /spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/velocity/Authz.java
* /spring-security-taglibs-3-2-4-release-sources-1-
jar/org/springframework/security/taglibs/authz/AccessControlListTag.java
* /spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/velocity/AuthzImpl.java
*
/spring-security-taglibs-3-2-4-release-sources-1-
jar/org/springframework/security/taglibs/authz/AuthenticationTag.java
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```

*/spring-security-taglibs-3-2-4-release-sources-1-
jar/org/springframework/security/taglibs/authz/AbstractAuthorizeTag.java

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- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/DefaultCsrfToken.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/bind/support/AuthenticationPrincipalArgumentResolver.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfException.java
- *
- /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/DelegatingAccessDeniedHandler.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/HttpSessionCsrfTokenRepository.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/InvalidSessionAccessDeniedHandler.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/session/AbstractSessionFixationProtectionStrategy.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/session/SessionFixationProtectionEvent.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
- *
- /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfTokenRepository.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/HeaderWriter.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/InvalidCsrfTokenException.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/AnyRequestMatcher.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/writers/CacheControlHeadersWriter.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/writers/DelegatingRequestMatcherHeaderWriter.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfLogoutHandler.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/writers/frameoptions/XFrameOptionsHeaderWriter.java
- *
- /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/servlet/support/csrf/CsrfRequestDataValueProcessor.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfAuthenticationStrategy.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/bind/annotation/AuthenticationPrincipal.java
- * /spring-security-web-3-2-4-release-sources-3-

```

jar/org/springframework/security/web/authentication/session/ChangeSessionIdAuthenticationStrategy.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/HstsHeaderWriter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/SessionFixationProtectionStrategy.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/MediaTypeRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfFilter.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfToken.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/XXssProtectionHeaderWriter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/XContentTypeOptionsHeaderWriter.java
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```

* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/rememberme/TokenBasedRememberMeServices.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelProcessingFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortResolverImpl.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/www/NonceExpiredException.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/WebAuthenticationDetailsSource.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/AbstractAuthenticationProcessingFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/Enumerator.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortMapperImpl.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/WebAuthenticationDetails.java

```

```

* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/ExceptionTranslationFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/FilterChainProxy.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/UrlUtils.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelDecisionManagerImpl.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/savedrequest/FastHttpDateFormat.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/savedrequest/SavedRequestAwareWrapper.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/intercept/FilterInvocationSecurityMetadataSource.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/switchuser/AuthenticationSwitchUserEvent.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/savedrequest/DefaultSavedRequest.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/DefaultWebInvocationPrivilegeEvaluator.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/intercept/FilterSecurityInterceptor.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortMapper.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/session/HttpSessionCreatedEvent.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/NullRememberMeServices.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/AccessDeniedHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/www/BasicAuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/switchuser/SwitchUserGrantedAuthority.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/session/ConcurrentSessionFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortResolver.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/www/BasicAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/intercept/DefaultFilterInvocationSecurityMetadataSource.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/AccessDeniedHandlerImpl.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/SecureChannelProcessor.java
* /spring-security-web-3-2-4-release-sources-3-

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```

jar/org/springframework/security/web/authentication/RememberMeServices.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/session/HttpSessionDestroyedEvent.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/InsecureChannelProcessor.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/session/HttpSessionEventPublisher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/AuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/RetryWithHttpsEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/RetryWithHttpEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestWrapper.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/LoginUrlAuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/www/DigestAuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/WebInvocationPrivilegeEvaluator.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/UsernamePasswordAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/switchuser/SwitchUserFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/rememberme/RememberMeAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/logout/LogoutHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelProcessor.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelDecisionManager.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/logout/SecurityContextLogoutHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/logout/LogoutFilter.java
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 jar/org/springframework/security/web/util/matcher/AndRequestMatcher.java
 * /spring-security-web-3-2-4-release-sources-3-
 jar/org/springframework/security/web/util/matcher/NegatedRequestMatcher.java
 * /spring-security-web-3-2-4-release-sources-3-
 jar/org/springframework/security/web/util/matcher/OrRequestMatcher.java

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- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/FilterInvocation.java
- * /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestFilter.java

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jar/org/springframework/security/web/header/HeaderWriterFilter.java
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jar/org/springframework/security/web/authentication/rememberme/JdbcTokenRepositoryImpl.java
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* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServletRequestFactory.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/AntPathRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/request/async/SecurityContextCallableProcessingInterceptor.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/SaveContextOnUpdateOrErrorResponseWrapper.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/AntPathRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/RegexRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServletRequest25RequestFactory.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServletRequest3RequestFactory.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/request/async/WebAsyncManagerIntegrationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/RegexRequestMatcher.java

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```
*/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/ELRequestMatcherContext.java
*/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/ELRequestMatcherContext.java
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jar/org/springframework/security/web/util/matcher/RequestHeaderRequestMatcher.java
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```

* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/RequestMatcherEditor.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/jaasapi/JaasApiIntegrationFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/ELRequestMatcher.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java

```

1.319 object-cache-api 0.8.4-Beryllium-SR4

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1.320 spring-security-core 3.2.4.RELEASE

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```

Found in path(s):

* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/bcrypt/BCrypt.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):

* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/PermissionEvaluator.java

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*/

Found in path(s):

* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java

* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java

* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java

*

/spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java

* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java

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 */

Found in path(s):

* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/MethodInvocationUtils.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/SimpleMethodInvocation.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/AccessDeniedException.java
 *
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/PasswordEncoder.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/RunAsUserToken.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/session/SessionRegistry.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/User.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/UserDetails.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/SecurityMetadataSource.java
 *
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/AuthenticatedVoter.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/annotation/Secured.java
 * /spring-security-core-3-2-4-release-sources-3-

```

jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/memory/UserMapEditor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/ProviderNotFoundException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/AccessDecisionManager.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/BaseDigestPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/ProviderManager.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/dao/DaoAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/UserDetailsService.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/PlaintextPasswordEncoder.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/LockedException.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/event/AuthorizedEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/ConfigAttribute.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureBadCredentialsEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/TestingAuthenticationToken.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/dao/ReflectionSaltSource.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/RoleVoter.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/dao/SaltSource.java
*

```

```

/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/method/MapBasedMethodSecurityMetadataSource.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/session/SessionInformation.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/annotation/Js250MethodSecurityMetadataSource.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManager.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/UserCache.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationFailedEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/TestingAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AuthenticationServiceException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/BasePasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/SecurityContextHolder.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/RunAsManagerImpl.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/event/LoggerListener.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/Authentication.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/LdapShaPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/AffirmativeBased.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/context/SecurityContext.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationToken.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java

```

* /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityInterceptor.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/GrantedAuthority.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/RunAsManager.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/UnanimousBased.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java
 *
 /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/InMemoryResource.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/event/AuthorizationFailureEvent.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/AuthenticationTrustResolver.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/userdetails/cache/NullUserCache.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/InterceptorStatusToken.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/AuthorizationServiceException.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/FieldUtils.java
 *
 /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/SecurityConfig.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/event/AuthenticationFailureLockedEvent.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/ConsensusBased.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java
 *
 /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/RememberMeAuthenticationToken.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/session/SessionRegistryImpl.java
 * /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/authentication/rcp/RemoteAuthenticationException.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/jaas/JaasNameCallbackHandler.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/userdetails/memory/InMemoryDaoImpl.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/AbstractAclVoter.java
 *
 /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/AbstractSecurityInterceptor.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationEvent.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/event/AuthenticationFailureServiceExceptionEvent.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/encoding/ShaPasswordEncoder.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/event/AuthenticationFailureCredentialsExpiredEvent.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/DisabledException.java
 *
 /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/encoding/Md5PasswordEncoder.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/userdetails/memory/UserMap.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/session/SessionIdentifierAware.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/dao/SystemWideSaltSource.java
 * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/AccessDecisionVoter.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/intercept/NullRunAsManager.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java
 *
 /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java
 * /spring-security-core-3-2-4-release-sources-3-
 jar/org/springframework/security/authentication/AuthenticationManager.java

```

* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/event/PublicInvocationEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/ConfigAttributeEditor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/memory/UserAttribute.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/SecurityContextImpl.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AccountExpiredException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/AfterInvocationProviderManager.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AbstractAuthenticationToken.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/CredentialsExpiredException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/InsufficientAuthenticationException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/LoggerListener.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/BadCredentialsException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AuthenticationDetailsSource.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/AuthenticationException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/authority/GrantedAuthorityImpl.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/SpringSecurityMessageSource.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/AfterInvocationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java
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/**

```

```

* A token issued by {@link TokenService}.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and secured that
* they can serve as identifying a unique user session. Implementations of {@link TokenService}
* are free to use encryption or encoding strategies of their choice. It is strongly recommended that
* keys are of sufficient length to balance safety against persistence cost. In relation to persistence
* cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
*/

```

Found in path(s):

/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/token/Token.java
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```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
*/

```

Found in path(s):

/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java
No license file was found, but licenses were detected in source scan.

```

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 *

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- * See the License for the specific language governing permissions and
- * limitations under the License.
- */

Found in path(s):

- * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/PasswordEncoder.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/Encryptors.java
 - *
 - /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/Digester.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/KeyGenerators.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/util/EncodingUtils.java
 - *
 - /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/CipherUtils.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
 - * /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
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jar/org/springframework/security/access/expressions/method/MethodSecurityExpressionOperations.java
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```

* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/method/P.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/expressions/method/ExpressionBasedAnnotationAttributeFactory.java
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```

```

/**
* Determines if the {@link #getAuthentication()} has permission to access the target given the permission
* @param target the target domain object to check permission on
* @param permission the permission to check on the domain object (i.e. "read", "write", etc).
* @return true if permission is granted to the {@link #getAuthentication()}, else false
*/

```

Found in path(s):

```

* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/expressions/SecurityExpressionOperations.java
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```

* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java

```

```

* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java
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*/
/**
* Reviews the 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
*/

```

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*/

/**

* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.

*

* @author Alan Stewart

*/

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jar/org/springframework/security/authentication/encoding/Md4PasswordEncoder.java

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/**

* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).

* See <http://iharder.net/base64> for more information.

* <p>

* For internal use only.

*

* @author Luke Taylor

* @since 3.0

*/

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jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java

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jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java

* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java

1.321 postgres-sql 42.2.5.jre7

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jar/org/springframework/security/config/annotation/configuration/ObjectPostProcessorConfiguration.java
*
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jar/org/springframework/security/config/annotation/authentication/configurers/GlobalAuthenticationConfigurerAdapter.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/JeeConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/EnableGlobalMethodSecurity.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/AbstractRequestMatcherRegistry.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/EnableWebSecurity.java
*
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jar/org/springframework/security/config/annotation/authentication/configurers/ldap/LdapAuthenticationProviderCon
figurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegist
ry.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/LogoutConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityAspectJAutoProxy
Registrar.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnorePar
ents.java
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/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/AbstractSecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/DaoAuthenticationConfig
urer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/AuthenticationConfiguration.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AnonymousConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/UrlAuthorizationConfigurer.java
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jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/servlet/configuration/EnableWebMvcSecurity.java
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jar/org/springframework/security/config/annotation/web/servlet/configuration/WebMvcSecurityConfiguration.java
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jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/HttpSecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/SecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/HeadersConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/AbstractDaoAuthenticationConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/EnableGlobalAuthentication.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractHttpConfigurer.java
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/spring-security-config-3-2-4-release-sources-
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* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/SessionManagementConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/InMemoryUserDetailsManagerConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/builders/HttpSecurity.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/openid/OpenIDLoginConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/http/HttpConfigurationBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java
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/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/SecurityContextConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/SecurityConfigurer.java
* /spring-security-config-3-2-4-release-sources-
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* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/builders/FilterComparator.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/AlreadyBuiltException.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java
*

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jar/org/springframework/security/config/annotation/AbstractConfiguredSecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/RememberMeConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ExpressionUrlAuthorizationConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsServiceConfig
urer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractAuthenticationFilterConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsManage
rConfigurer.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/CsrfConfigurer.java
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jar/org/springframework/security/config/annotation/web/WebSecurityConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
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jar/org/springframework/security/config/annotation/web/configurers/HttpBasicConfigurer.java
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jar/org/springframework/security/config/annotation/ObjectPostProcessor.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/DefaultLoginPageConfigurer.java
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jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/UserDetailsManagerCo
nfigurer.java
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jar/org/springframework/security/config/annotation/web/configurers/X509Configurer.java
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jar/org/springframework/security/config/annotation/web/configurers/ExceptionHandlerConfigurer.java
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* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/debug/SecurityDebugBeanFactoryPostProcessor.java
No license file was found, but licenses were detected in source scan.

```
/*
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 * limitations under the License.
 */
```

Found in path(s):

```
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/CsrfBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/method/MethodConfigUtils.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
*
/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/AuthenticationConfigBuilder.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/LogoutBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/HttpSecurityBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/WebConfigUtils.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/HeadersBeanDefinitionParser.java
```

1.324 util 0.8.4-Beryllium-SR4

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1.325 mibble-commercial-parser 2.9.3

1.325.1 Available under license :

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 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 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 dissociates 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 }

snmpOutTooBigs OBJECT-TYPE

SYNTAX Counter

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

snmpOutNoSuchNames OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
 "The total number of SNMP PDUs which were
 generated by the SNMP protocol entity and for
 which the value of the error-status is
 `noSuchName`."
::= { snmp 21 }

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

-- { snmp 23 } is not used

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

snmpOutGetRequests OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity."

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Set-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity."

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity."

::= { snmp 29 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Indicates whether the SNMP agent process is permitted to generate authentication-failure

traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authentication-failure traps may be disabled.

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

```
::= { snmp 30 }
```

END

Found in path(s):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-MIB

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

IANAifType-MIB DEFINITIONS ::= BEGIN

IMPORTS

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

ianaifType MODULE-IDENTITY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

REVISION "200503030000Z"
-- March 3, 2005
DESCRIPTION "Added the IANA tunnelType TC and deprecated

IANAifType sixToFour (215) per RFC4087."

REVISION "200411220000Z" -- November 22, 2004

DESCRIPTION "Registration of new IANA ifType 227 per RFC4631."

REVISION "200406170000Z" -- June 17, 2004

DESCRIPTION "Registration of new IANA ifType 226."

REVISION "200405120000Z" -- May 12, 2004

DESCRIPTION "Added description for IANAifType 6, and
changed the descriptions for IANAifTypes
180, 181, and 182."

REVISION "200405070000Z" -- May 7, 2004

DESCRIPTION "Registration of new IANAifType 225."

REVISION "200308250000Z" -- Aug 25, 2003

DESCRIPTION "Deprecated IANAifTypes 7 and 11. Obsoleted
IANAifTypes 62, 69, and 117. ethernetCsmacd (6)
should be used instead of these values"

REVISION "200308180000Z"

-- Aug 18, 2003

DESCRIPTION "Registration of new IANAifType
224."

REVISION "200308070000Z" -- Aug 7, 2003

DESCRIPTION "Registration of new IANAifTypes
222 and 223."

REVISION "200303180000Z" -- Mar 18, 2003

DESCRIPTION "Registration of new IANAifType
221."

REVISION "200301130000Z" -- Jan 13, 2003

DESCRIPTION "Registration of new IANAifType
220."

REVISION "200210170000Z" -- Oct 17, 2002

DESCRIPTION "Registration of new IANAifType
219."

REVISION "200207160000Z" -- Jul 16, 2002

DESCRIPTION "Registration of new IANAifTypes
217 and 218."

REVISION "200207100000Z" -- Jul 10, 2002

DESCRIPTION "Registration of new IANAifTypes

215 and 216."

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

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

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

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

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

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

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

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

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

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

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

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

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

REVISION "200010170000Z" -- Oct 17, 2000
DESCRIPTION "Registration of new IANAifTypes
188 and 189."

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

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

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

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

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

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

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

REVISION "199910081430Z" -- Oct 08, 1999

DESCRIPTION "Include new name assignments up to cnr(85).

This is the first version available via the WWW

at: <ftp://ftp.isi.edu/mib/ianaiftype.mib>"

REVISION "199401310000Z" -- Jan 31, 1994

DESCRIPTION "Initial version of this MIB as published in
RFC 1573."

::= { mib-2 30 }

IANAifType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used as the syntax of the ifType
object in the (updated) definition of MIB-II's
ifTable.

The definition of this textual convention with the
addition of newly assigned values is published
periodically by the IANA, in either the Assigned
Numbers RFC, or some derivative of it specific to
Internet

Network Management number assignments. (The
latest arrangements can be obtained by contacting the
IANA.)

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

The relationship between the assignment of ifType
values and of OIDs to particular media-specific MIBs
is solely the purview of IANA and is subject to change
without notice. Quite often, a media-specific MIB's
OID-subtree assignment within MIB-II's 'transmission'
subtree will be the same as its ifType value.
However, in some circumstances this will not be the
case, and implementors must not pre-assume any
specific relationship between ifType values and
transmission subtree OIDs."

SYNTAX INTEGER {

other(1), -- none of the following
regular1822(2),
hdl1822(3),
ddnX25(4),
rfc877x25(5),
ethernetCsmacd(6), -- for all ethernet-like interfaces,
-- regardless of speed, as per RFC3635

```

iso88023Csmacd(7), -- Deprecated via RFC3635
    -- ethernetCsmacd (6) should be used instead
iso88024TokenBus(8),
iso88025TokenRing(9),
iso88026Man(10),
starLan(11), -- Deprecated via RFC3635
    -- ethernetCsmacd (6) should be used instead
proteon10Mbit(12),
proteon80Mbit(13),
hyperchannel(14),
fddi(15),
lapb(16),
sdlc(17),
ds1(18),      -- DS1-MIB
e1(19),      -- Obsolete see DS1-MIB
basicISDN(20),
-- no longer used
    -- see also RFC2127
primaryISDN(21),      -- no longer used
    -- see also RFC2127
propPointToPointSerial(22), -- proprietary serial
ppp(23),
softwareLoopback(24),
eon(25),      -- CLNP over IP
ethernet3Mbit(26),
nsip(27),     -- XNS over IP
slip(28),     -- generic SLIP
ultra(29),    -- ULTRA technologies
ds3(30),      -- DS3-MIB
sip(31),      -- SMDS, coffee
frameRelay(32), -- DTE only.
rs232(33),
para(34),     -- parallel-port
arcnet(35),   -- arcnet
arcnetPlus(36), -- arcnet plus
atm(37),
-- ATM cells
miox25(38),
sonet(39),    -- SONET or SDH
x25ple(40),
iso88022llc(41),
localTalk(42),
smdsDxi(43),
frameRelayService(44), -- FRNETSERV-MIB
v35(45),
hssi(46),
hippi(47),
modem(48),    -- Generic modem

```

aal5(49), -- AAL5 over ATM
 sonetPath(50),
 sonetVT(51),
 smdsIcip(52), -- SMDS InterCarrier Interface
 propVirtual(53), -- proprietary virtual/internal
 propMultiplexor(54), -- proprietary multiplexing
 ieee80212(55), -- 100BaseVG
 fibreChannel(56), -- Fibre Channel
 hippiInterface(57), -- HIPPI interfaces
 frameRelayInterconnect(58), --

Obsolete use either

-- frameRelay(32) or
 -- frameRelayService(44).
 aflane8023(59), -- ATM Emulated LAN for 802.3
 aflane8025(60), -- ATM Emulated LAN for 802.5
 cctEmul(61), -- ATM Emulated circuit
 fastEther(62), -- Obsoleted via RFC3635
 -- ethernetCsmacd (6) should be used instead
 isdn(63), -- ISDN and X.25
 v11(64), -- CCITT V.11/X.21
 v36(65), -- CCITT V.36
 g703at64k(66), -- CCITT G703 at 64Kbps
 g703at2mb(67), -- Obsolete see DS1-MIB
 qllc(68), -- SNA QLLC
 fastEtherFX(69), -- Obsoleted via RFC3635

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

 async(84), -- Asynchronous Protocol
 cnr(85), -- Combat Net Radio
 iso88025Dtr(86), -- ISO 802.5r DTR
 eplrs(87), -- Ext Pos Loc Report Sys
 arap(88), -- Appletalk Remote Access Protocol
 propCnls(89), -- Proprietary Connectionless Protocol


```

hostPad(90),      -- CCITT-ITU X.29 PAD Protocol
termPad(91),      -- CCITT-ITU X.3 PAD Facility
frameRelayMPI(92), -- Multiproto Interconnect over FR
x213(93),         -- CCITT-ITU X213
adsl(94),         -- Asymmetric Digital Subscriber Loop
radsl(95),        -- Rate-Adapt. Digital Subscriber Loop
sdsl(96),         -- Symmetric Digital Subscriber Loop
vdsl(97),         -- Very H-Speed Digital Subscrib. Loop
iso88025CRFPInt(98),
-- ISO 802.5 CRFP
myrinet(99),      -- Myricom Myrinet
voiceEM(100),     -- voice recEive and transMit
voiceFXO(101),    -- voice Foreign Exchange Office
voiceFXS(102),    -- voice Foreign Exchange Station
voiceEncap(103),  -- voice encapsulation
voiceOverIp(104), -- voice over IP encapsulation
atmDxi(105),      -- ATM DXI
atmFuni(106),     -- ATM FUNI
atmIma (107),     -- ATM IMA
pppMultilinkBundle(108), -- PPP Multilink Bundle
ipOverCdlc (109), -- IBM ipOverCdlc
ipOverClaw (110), -- IBM Common Link Access to Workstn
stackToStack (111), -- IBM stackToStack
virtualIpAddress (112), -- IBM VIPA
mpc (113),        -- IBM multi-protocol channel support

ipOverAtm (114),  -- IBM ipOverAtm
iso88025Fiber (115), -- ISO 802.5j Fiber Token Ring
tdlc (116),       -- IBM twinaxial data link control
gigabitEthernet (117), -- Obsoleted via RFC3635
                    -- ethernetCsmacd (6) should be used instead
hdlc (118),       -- HDLC
lapf (119),       -- LAP F
v37 (120),        -- V.37
x25mlp (121),     -- Multi-Link Protocol
x25huntGroup (122), -- X25 Hunt Group
trasnpHdlc (123), -- Transp HDLC
interleave (124), -- Interleave channel
fast (125),       -- Fast channel
ip (126),         -- IP (for APPN HPR in IP networks)
docsCableMaclayer (127), -- CATV Mac Layer
docsCableDownstream (128), -- CATV Downstream interface
docsCableUpstream
(129), -- CATV Upstream interface
a12MppSwitch (130), -- Avalon Parallel Processor
tunnel (131),      -- Encapsulation interface
coffee (132),     -- coffee pot
ces (133),        -- Circuit Emulation Service

```

atmSubInterface (134), -- ATM Sub Interface
 l2vlan (135), -- Layer 2 Virtual LAN using 802.1Q
 l3ipvlan (136), -- Layer 3 Virtual LAN using IP
 l3ipxvlan (137), -- Layer 3 Virtual LAN using IPX
 digitalPowerline (138), -- IP over Power Lines
 mediaMailOverIp (139), -- Multimedia Mail over IP
 dtm (140), -- Dynamic 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), -- 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/OBSOLETED - please use adsl2plus 238 instead)

macSecControlledIF (231), -- MACSecControlled
 macSecUncontrolledIF (232), -- MACSecUncontrolled
 aviciOpticalEther (233), -- Avici Optical Ethernet Aggregate
 atmbond (234), -- atmbond
 voiceFGDOS (235), -- voice FGD Operator Services
 mocaVersion1 (236), -- MultiMedia over Coax Alliance (MoCA) Interface
 -- as documented in information provided privately to IANA
 ieee80216WMAN (237), -- IEEE 802.16 WMAN interface
 adsl2plus (238), -- Asymmetric Digital Subscriber Loop Version 2,
 -- Version 2 Plus and all variants
 dvbRcsMacLayer (239), -- DVB-RCS MAC Layer
 dvbTdm (240), -- DVB Satellite TDM
 dvbRcsTdma (241), -- DVB-RCS TDMA
 x86Laps (242), -- LAPS based on ITU-T X.86/Y.1323
 wwanPP (243), -- 3GPP

WWAN

wwanPP2 (244) -- 3GPP2 WWAN
 }

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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/iana/IANAifType-MIB

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

APM-MIB DEFINITIONS ::= BEGIN

IMPORTS

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

-- Application Performance Measurement MIB

apm MODULE-IDENTITY

LAST-UPDATED "200402190000Z" -- February 19, 2004

ORGANIZATION "IETF RMON MIB Working Group"

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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 supersedes 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

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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/APM-MIB

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

DOCS-IF-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,
OBJECT-TYPE,
Unsigned32,
Integer32,
Counter32,
Counter64,
TimeTicks,
IpAddress,
transmission
FROM SNMPv2-SMI -- [RFC2578]
TEXTUAL-CONVENTION,
MacAddress,
RowStatus,
TruthValue,
TimeInterval,
TimeStamp,
StorageType
FROM SNMPv2-TC -- [RFC2579]
OBJECT-GROUP,

MODULE-COMPLIANCE

FROM SNMPv2-CONF -- [RFC2580]
ifIndex, InterfaceIndexOrZero
FROM IF-MIB -- [RFC2863]
InetAddressType,
InetAddress
FROM INET-ADDRESS-MIB -- [RFC4001]
IANAifType
FROM IANAifType-MIB; -- [IANA]

docsIfMib MODULE-IDENTITY

LAST-UPDATED "200605240000Z" -- May 24, 2006
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Jean-Francois Mule, jf.mule@cablelabs.com"

DESCRIPTION

"This is the MIB Module for DOCSIS 2.0-compliant Radio

Frequency (RF) interfaces in Cable Modems and
Cable Modem Termination Systems.

Copyright (C) The Internet Society (2006). This
version of this MIB module is part of RFC 4546; see
the RFC itself for full legal notices."

REVISION "200605240000Z"

DESCRIPTION

"Revision of the IETF RF MIB module for DOCSIS 2.0.

This version published as RFC 4546.

This MIB module revision includes the following
among others:

Usage of ifType (205) for upstream logical channels.

Addition of downstream and upstream utilization
counters.

Additional statistics per upstream interface.

Upstream channel offline configuration mechanism.

Added MIB support for new DOCSIS 2.0 modulation
attributes.

Euro-DOCSIS downstream interleave values.

Adjustments to RFC 2670 definitions based on
the MIB review guidelines from the IETF

Operations and Management Area (OPS)."

REVISION "199908190000Z"

DESCRIPTION

"Initial version, published as RFC 2670.

Modified by Mike St. Johns to fix problems identified by the first pass of the MIB doctor. Of special note, docsIfRangingResp and docsIfCmtsInsertionInterval were obsoleted and replaced by other objects with the same functionality, but with more appropriate syntax."

::= { transmission 127 }

-- Textual Conventions

TenthdBmV ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally expressed in dBmV. Units are in tenths of a dBmV; for example, 5.1 dBmV will be represented as 51."

SYNTAX Integer32

TenthdB ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally expressed in dB. Units are in tenths of a dB; for example, 5.1 dB will be represented as 51."

SYNTAX Integer32

DocsisVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Radio Frequency specification being referenced.

'docsis10' indicates DOCSIS 1.0.

'docsis11' indicates DOCSIS 1.1.

'docsis20' indicates DOCSIS 2.0."

SYNTAX INTEGER {

docsis10 (1),

docsis11 (2),

docsis20 (3)

}

DocsisQosVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the referenced quality-of-service level.

'docsis10' refers to DOCSIS 1.0 Class of Service queuing services, and 'docsis11' refers to DOCSIS 1.1 Quality of Service."

SYNTAX INTEGER {

docsis10 (1),

docsis11 (2)

}

DocsisUpstreamType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Upstream Channel Type.

'unknown' means information not available.

'tdma' is related to TDMA, Time Division

Multiple Access; 'atdma' is related to A-TDMA,

Advanced Time Division Multiple Access,

'scdma' is related to S-CDMA, Synchronous

Code Division Multiple Access.

'tdmaAndAtdma' is related to simultaneous support of TDMA and A-TDMA modes."

SYNTAX INTEGER {

unknown(0),

tdma(1),

atdma(2),

scdma(3),

tdmaAndAtdma(4)

}

DocsEqualizerData ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type represents the equalizer data as measured at the receiver interface.

The format of the equalizer follows the structure of the Transmit Equalization Adjust RNG-RSP TLV of DOCSIS RFI v2.0 :

1 byte Main tap location 1..(n + m)

1 byte Number of forward taps per symbol

1 byte Number of forward taps: n

1 byte Number of reverse taps: m

Following are the equalizer coefficients:

First, forward taps coefficients:

2 bytes F1 (real), 2 bytes F1 (imag)

...

2 bytes Fn (real), 2 bytes Fn (imag)

Then, reverse taps coefficients:

2 bytes D1 (real), 2 bytes D1 (imag)

...

2 bytes Dm (real), 2 bytes Dm (imag)

The equalizer coefficients are considered signed 16-bit integers in the range from -32768 (0x8000) to 32767 (0x7FFF).

DOCSIS specifications require up to a maximum of 64 equalizer taps (n + m); therefore, this object size can get up 260 bytes (4 + 4x64).

The minimum object size (other than zero) for a t-spaced tap with a minimum of 8 symbols will be 36 (4 + 4x8)."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 8-23."

SYNTAX OCTET STRING(SIZE (0 | 36..260))

```
docsIfMibObjects OBJECT IDENTIFIER ::= { docsIfMib 1 }
docsIfBaseObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 1 }
docsIfCmObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 2 }
docsIfCmtsObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 3 }
```

--

-- BASE GROUP

--

--

-- The following table is implemented on both the Cable Modem
-- and the Cable Modem Termination System. This table is
-- read only for the CM.

--

docsIfDownstreamChannelTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfDownstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table describes the attributes of downstream channels (frequency bands)."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface

Specification SP-RF1v2.0-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,

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 }

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 }

docsIfSigQExtCorrected 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 docsIfSigQCorrected.

Discontinuities in the value of this 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 }

docsIfSigQExtUncorrectable 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-RF1v2.0-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,

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,
    docsIfCmtsStatusRangingAborted    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,
docsIfCmtsCmStatusUnerrored          Counter32,
docsIfCmtsCmStatusCorrected          Counter32,
docsIfCmtsCmStatusUncorrectables     Counter32,
docsIfCmtsCmStatusSignalNoise        TenthdB,
docsIfCmtsCmStatusMicroreflections   Integer32,
docsIfCmtsCmStatusExtUnerrored       Counter64,
docsIfCmtsCmStatusExtCorrected       Counter64,
docsIfCmtsCmStatusExtUncorrectables  Counter64,
docsIfCmtsCmStatusDocsisRegMode      DocsisQosVersion,
docsIfCmtsCmStatusModulationType     DocsisUpstreamType,
docsIfCmtsCmStatusInetAddressType    InetAddressType,
docsIfCmtsCmStatusInetAddress        InetAddress,

docsIfCmtsCmStatusValueLastUpdate    TimeStamp,
docsIfCmtsCmStatusHighResolutionTimingOffset Unsigned32
}

```

docsIfCmtsCmStatusIndex OBJECT-TYPE

SYNTAX

Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index value to uniquely identify an entry in this table.

For an individual cable modem, this index value SHOULD NOT change during CMTS uptime."

::= { docsIfCmtsCmStatusEntry 1 }

docsIfCmtsCmStatusMacAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"MAC address of the cable modem. If the cable modem has multiple MAC addresses, this is the MAC address associated with the Cable interface."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209,

Section 8.2.2."

::= { docsIfCmtsCmStatusEntry 2 }

docsIfCmtsCmStatusIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"IP address

of this cable modem. If the cable modem has no

IP address assigned, or the IP address is unknown, this object returns a value of 0.0.0.0. If the cable modem has multiple IP addresses, this object returns the IP address associated with the Cable interface.

This object has been deprecated and replaced by

docsIfCmtsCmStatusInetAddressType and

docsIfCmtsCmStatusInetAddress, to enable IPv6 addressing in the future."

::= { docsIfCmtsCmStatusEntry 3 }

docsIfCmtsCmStatusDownChannelIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"IfIndex of the downstream channel that this CM is connected to. If the downstream channel is unknown, this object returns a value of zero."

::= { docsIfCmtsCmStatusEntry 4 }

docsIfCmtsCmStatusUpChannelIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"For DOCSIS 2.0, indicates the ifIndex of the logical upstream channel (ifType 205) this CM is connected to. For DOCSIS 1.x, indicates the ifIndex of the upstream channel (ifType 129) this CM is connected to. If the upstream channel is unknown, this object returns a value of zero."

::= { docsIfCmtsCmStatusEntry 5 }

docsIfCmtsCmStatusRxPower OBJECT-TYPE

SYNTAX TenthdBmV
UNITS "ThenthdBmV"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The receive power as perceived for upstream data from this cable modem.

If the receive power is unknown, this object returns a value of zero."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.18."

```
::= { docsIfCmtsCmStatusEntry 6  
}
```

docsIfCmtsCmStatusTimingOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..4294967295)
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"A measure of the current round trip time for this CM.

Used for timing of CM upstream transmissions to ensure synchronized arrivals at the CMTS. Units are in terms of (6.25 microseconds/64). Returns zero if the value is unknown.

For channels requiring finer resolution, please refer to object docsIfCmtsCmStatusHighResolutionTimingOffset."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.17."

```
::= { docsIfCmtsCmStatusEntry 7 }
```

docsIfCmtsCmStatusEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Equalization data for this CM, as measured by the CMTS.

Returns the zero-length OCTET STRING if the value is unknown or if there is no equalization data available or defined."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

::= { 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.

registeredBPIInitializing(9)

Baseline Privacy (BPI) is enabled and the CMTS is in the process of completing BPI initialization. This state MAY last for a significant length of time if failures occur during the initialization process. After completion of BPI initialization, the CMTS will report registrationComplete(6).

The CMTS only needs to report states it is able to detect."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 11.2."

::= { docsIfCmtsCmStatusEntry 9 }

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 }

docsIfCmtsCmStatusCorrected 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-RF1v2.0-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
- docsIfCmtsChannelUtilization 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, docsIfCmtsChannelUtilType,
docsIfCmtsChannelUtilId }
::= { docsIfCmtsChannelUtilizationTable 1 }

```

```

DocsIfCmtsChannelUtilizationEntry ::= SEQUENCE {
docsIfCmtsChannelUtilType IANAIfType,
docsIfCmtsChannelUtilId Integer32,
docsIfCmtsChannelUtilization Integer32
}

```

docsIfCmtsChannelUtilType 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 }

```

docsIfCmtsChannelUtilId 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 }

```

docsIfCmtsChannelUtilization 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..860000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems. The values above are
appropriate for a cable plant using a Sub-Split channel
plan. If DOCSIS is extended to cover other types of
channel plans (and frequency allocations), this object
will be modified accordingly."

OBJECT docsIfDownChannelWidth

WRITE-SYNTAX Integer32 (6000000)

MIN-ACCESS read-only

DESCRIPTION

"It is important to implement this object as read-only.

In cable modems, this object is always

implemented as

read-only. The above value is appropriate for cable

plants running under NTSC (National Television

Standards Committee) standards. If DOCSIS is extended to

work with other standards (e.g., European standards), this object will be modified accordingly."

OBJECT docsIfDownChannelModulation

WRITE-SYNTAX INTEGER {
 qam64 (3),
 qam256 (4)
}

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfDownChannelInterleave

WRITE-SYNTAX INTEGER {
 taps8Increment16(3),
 taps16Increment8(4),
 taps32Increment4(5),

 taps64Increment2(6),
 taps128Increment1(7)
}

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination
systems;
read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelFrequency

WRITE-SYNTAX Integer32 (5000000..42000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems. The values above are
appropriate for a cable plant using a Sub-Split channel
plan. If DOCSIS is extended to cover other types of
channel plans (and frequency allocations), this object
will be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..3200000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems. The above value is appropriate
for cable plants running under NTSC (National Television
Standards Committee) standards. If DOCSIS is extended to
work with other standards (e.g., European standards), this
object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfQosProfPriority

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant
to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxTxBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfStatus

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.

It is compliant

to implement this object as read-only

in cable modem termination systems."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

WRITE-SYNTAX BITS {
 createByManagement(0),
 updateByManagement(1)
}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

WRITE-SYNTAX INTEGER {
 qpsk (2),
 qam16 (3)

```

    }
DESCRIPTION
    "A management station MAY only set 16QAM or QPSK modulation,
    but others might be possible, based on device
    configuration."

OBJECT docsIfCmtsModPreambleLen
SYNTAX Integer32 (0..1024)
DESCRIPTION
    "The range of the values for this MODULE-COMPLIANCE
    is 0..1024."

OBJECT docsIfCmtsModFECErrorCorrection
SYNTAX Integer32 (0..10)
DESCRIPTION
    "The range of the values for this MODULE-COMPLIANCE
    is 0..10."

::= { docsIfCompliances 1 }

docsIfBasicComplianceV2 MODULE-COMPLIANCE
STATUS current
DESCRIPTION
    "The compliance statement for devices that implement
    DOCSIS 2.0 Radio Frequency Interfaces."

MODULE -- docsIfMib

-- unconditionally
mandatory groups
MANDATORY-GROUPS {
    docsIfBasicGroupV2
}

-- conditionally mandatory group
GROUP docsIfCmGroupV2
DESCRIPTION
    "This group is implemented only in cable modems, not in
    cable modem termination systems."

-- conditionally mandatory group
GROUP docsIfCmtsGroupV2
DESCRIPTION
    "This group is implemented only in cable modem termination
    systems, not in cable modems."

```

OBJECT docsIfDownChannelFrequency
WRITE-SYNTAX Integer32 (47000000..862000000)
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems.
A range of 54MHz to 860MHz is appropriate for a cable
plant using a North American Sub-Split channel plan.
The spectrum range has been expanded to accommodate
a lower edge of 47MHz and an upper edge of 862MHz
for some European channel plans.
If DOCSIS is extended to cover other
types of channel
plans (and frequency allocations), this object will be
modified accordingly."

OBJECT docsIfDownChannelWidth
WRITE-SYNTAX Integer32 (6000000 | 8000000)
MIN-ACCESS read-only
DESCRIPTION
"It is important to implement this object as read-only.
In cable modems, this object is always implemented as
read-only. The value of 6 MHz is appropriate for cable
plants running under NTSC (National Television
Standards Committee) standards. The value of 8 MHz is
appropriate for cable plants running under ETSI
standards. For other regional standards, this
object will be modified accordingly."

OBJECT docsIfDownChannelModulation
WRITE-SYNTAX INTEGER {
 qam64 (3),
 qam256 (4)
}
MIN-ACCESS read-only
DESCRIPTION

"Read-write in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfDownChannelInterleave
WRITE-SYNTAX INTEGER {
 taps8Increment16(3),

```
taps16Increment8(4),
taps32Increment4(5),
taps64Increment2(6),
taps128Increment1(7),
taps12increment17(8)
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelFrequency

WRITE-SYNTAX Integer32 (5000000..65000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems.

A range of 5MHz to 42MHz is appropriate for a cable
plant using a North American Sub-Split channel plan.

The spectrum range has been expanded to accommodate
an upper edge of 65MHz for some European channel plans.

If DOCSIS is extended to cover other types of channel
plans (and frequency allocations), this object will
be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..6400000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems,
read-only in cable modems. The above value is appropriate
for cable plants running under NTSC (National Television
Standards Committee) standards. If DOCSIS is extended to
work with other standards (e.g., European standards), this
object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelScdmaActiveCodes

MIN-ACCESS

read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems.

The number of active codes when SCDMA is in use MUST range
from 64 to 128 and MUST be a non-Prime value.

Providing this range allows for the following features
and capabilities:

- 1) Power management in S-CDMA spreader-on frames
(with a 3 dB spread).

- 2) Avoidance of code 0.
- 3) Flexible mini-slot sizes with and without the use of code 0."

OBJECT docsIfUpChannelScdmaCodesPerSlot

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelScdmaFrameSize

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelScdmaHoppingSeed

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelCloneFrom

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelUpdate

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelStatus

MIN-ACCESS read-only

DESCRIPTION

"Read-create in Cable Modem Termination Systems;
read-only in Cable Modems.
Entries associated to physical interfaces only support
the read-only value 'active'."

OBJECT docsIfUpChannelPreEqEnable

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfQosProfPriority
MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth
MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth
MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth
MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy
MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfStatus
MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxTransmitBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfCmRangingTimeout

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmStatusModulationType

SYNTAX INTEGER {

unknown(0),

tdma(1),

atdma(2),

scdma(3)

}

DESCRIPTION

"CM does not use both modulation burst profiles of a
'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is
not supported."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

WRITE-SYNTAX BITS {
 createByManagement(0),
 updateByManagement(1)
}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

WRITE-SYNTAX INTEGER {
 qpsk(2),
 qam16(3),
 qam64(6)
}

DESCRIPTION

"A management station MAY only set 64QAM, 16QAM, or QPSK modulation for Time or Code division Multiple Access, but others might be possible based on device configuration."

OBJECT docsIfCmtsCmStatusModulationType

SYNTAX INTEGER {
 unknown(0),
 tdma(1),
 atdma(2),
 scdma(3)
}

DESCRIPTION

"CM does not use both modulation burst profiles of a 'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is not supported."

::= { docsIfCompliances 2 }

docsIfBasicGroup OBJECT-GROUP

OBJECTS {
 docsIfDownChannelId,
 docsIfDownChannelFrequency,
 docsIfDownChannelWidth,
 docsIfDownChannelModulation,

docsIfDownChannelInterleave,
docsIfDownChannelPower,
docsIfUpChannelId,
docsIfUpChannelFrequency,
docsIfUpChannelWidth,
docsIfUpChannelModulationProfile,
docsIfUpChannelSlotSize,
docsIfUpChannelTxTimingOffset,
docsIfUpChannelRangingBackoffStart,
docsIfUpChannelRangingBackoffEnd,
docsIfUpChannelTxBackoffStart,
docsIfUpChannelTxBackoffEnd,
docsIfQosProfPriority,

docsIfQosProfMaxUpBandwidth,
docsIfQosProfGuarUpBandwidth,
docsIfQosProfMaxDownBandwidth,
docsIfQosProfMaxTxBurst,
docsIfQosProfBaselinePrivacy,
docsIfQosProfStatus,
docsIfSigQIncludesContention,
docsIfSigQUnerroreds,
docsIfSigQCorrecteds,
docsIfSigQUncorrectables,
docsIfSigQSignalNoise,
docsIfSigQMicroreflections,
docsIfSigQEqualizationData

}

STATUS deprecated

DESCRIPTION

"Group of objects implemented in both cable modems and
cable modem termination systems."

::= { docsIfGroups 1 }

docsIfCmGroup OBJECT-GROUP

OBJECTS {

docsIfCmCmtsAddress,
docsIfCmCapabilities,
docsIfCmRangingTimeout,
docsIfCmStatusValue,
docsIfCmStatusCode,
docsIfCmStatusTxPower,
docsIfCmStatusResets,
docsIfCmStatusLostSyncs,
docsIfCmStatusInvalidMaps,
docsIfCmStatusInvalidUcds,

```

docsIfCmStatusInvalidRangingResponses,
docsIfCmStatusInvalidRegistrationResponses,
docsIfCmStatusT1Timeouts,
docsIfCmStatusT2Timeouts,
docsIfCmStatusT3Timeouts,
docsIfCmStatusT4Timeouts,
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,
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,
- 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):

* /mibbe-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-MIB

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

SNMP-FRAMEWORK-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,

OBJECT-IDENTITY,

snmpModules FROM SNMPv2-SMI

TEXTUAL-CONVENTION FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

snmpFrameworkMIB MODULE-IDENTITY

LAST-UPDATED "200210140000Z"

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"

DESCRIPTION "The SNMP Management Architecture MIB

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version of this MIB module is part of RFC 3411;
see the RFC itself for full legal notices.

"

REVISION "200210140000Z" -- 14 October 2002

DESCRIPTION "Changes in this revision:

- Updated various administrative information.
- Corrected some typos.
- Corrected typo in description of SnmpEngineID
that led to range overlap for 127.
- Changed '255a' to '255t' in definition of

SnmpAdminString to align with current SMI.

- Reworded 'reserved' for value zero in DESCRIPTION of SnmpSecurityModel.
- The algorithm for allocating security models should give 256 per enterprise block, rather than 255.
- The example engine ID of 'abcd' is not legal. Replaced with '800002b804616263'H based on example enterprise 696, string 'abc'.
- Added clarification that engineID should persist across re-initializations.

This revision published as RFC 3411.

"

REVISION "199901190000Z" -- 19 January 1999

DESCRIPTION "Updated editors' addresses, fixed typos. Published as RFC 2571.

"

REVISION "199711200000Z" -- 20 November 1997

DESCRIPTION "The initial version, published in RFC 2271.

"

::= { snmpModules 10 }

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

SnmpEngineID ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "An SNMP engine's administratively-unique identifier.

Objects of this type are for identification, not for addressing, even though it is possible that an address may have been used in the generation of a specific value.

The value for this object may not be all zeros or all 'ff'H or the empty (zero length) string.

The initial value for this object may be configured via an operator console entry or via an algorithmic function. In the latter case, the following example algorithm is recommended.

In cases where there are multiple engines on the same system, the use of this algorithm is NOT appropriate, as it would result in all of those engines ending up with the same ID value.

1) The very first bit is used to indicate how the rest of the data is composed.

0 - as defined by enterprise using former methods that existed before SNMPv3. See item 2 below.

1 - as defined by this architecture, see item 3 below.

Note that this allows existing uses of the engineID (also known as AgentID [RFC1910]) to co-exist with any new uses.

2) The snmpEngineID has a length of 12 octets.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The remaining eight octets are determined via

one or more enterprise-specific methods. Such methods must be designed so as to maximize the possibility that the value of this object will be unique in the agent's administrative domain. For example, it may be the IP address of the SNMP entity, or the MAC address of one of the interfaces, with each address suitably padded with random octets. If multiple methods are defined, then it is recommended that the first octet indicate the method being used and the remaining octets be a function of the method.

3) The length of the octet string varies.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned

{ enterprises 696 }, the first four octets would be assigned '000002b8'H.

The very first bit is set to 1. For example, the above value for Acme Networks now changes to be '800002b8'H.

The fifth octet indicates how the rest (6th and following octets) are formatted. The values for the fifth octet are:

- 0 - reserved, unused.
- 1 - IPv4 address (4 octets)
lowest non-special IP address
- 2 - IPv6 address (16 octets)
lowest non-special IP address
- 3 - MAC address (6 octets)
lowest IEEE MAC address, canonical
order
- 4 - Text, administratively assigned
Maximum remaining length 27
- 5 - Octets, administratively assigned
Maximum remaining length 27
- 6-127 - reserved, unused
- 128-255 - as defined by the enterprise
Maximum remaining length 27

"

SYNTAX OCTET STRING (SIZE(5..32))

SnmpSecurityModel ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "An identifier that uniquely identifies a

Security Model of the Security Subsystem within this SNMP Management Architecture.

The values for securityModel are allocated as follows:

- The zero value does not identify any particular security model.

- Values between 1 and 255, inclusive, are reserved

for standards-track Security Models and are managed by the Internet Assigned Numbers Authority (IANA).

- Values greater than 255 are allocated to enterprise-specific Security Models. An enterprise-specific securityModel value is defined to be:

$$\text{enterpriseID} * 256 + \text{security model within enterprise}$$

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)

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:

enterpriseID * 256 +

messageProcessingModel within enterprise

For example, the fourth Message Processing Model defined by the enterprise whose enterpriseID

is 1 would be 259.

This scheme for allocating messageProcessingModel values allows for a maximum of 255 standards-based Message Processing Models, and for a maximum of 256 Message Processing Models per enterprise.

It is believed that the assignment of new messageProcessingModel values will be rare in practice because the larger the number of simultaneously utilized Message Processing Models, the larger the chance that interoperability will suffer. It is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard messageProcessingModels. This limits the ability to define new proprietary implementations of Message Processing Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded form, the messageProcessingModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of messageProcessingModel defined for use with SNMP. They are as follows:

- 0 reserved for SNMPv1
- 1 reserved for SNMPv2c

2 reserved for SNMPv2u and SNMPv2*

3 reserved for SNMPv3

"

SYNTAX INTEGER(0 .. 2147483647)

SnmpSecurityLevel

::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "A Level of Security at which SNMP messages can be sent or with which operations are being processed; in particular, one of:

noAuthNoPriv - without authentication and
without privacy,
authNoPriv - with authentication but
without privacy,
authPriv - with authentication and
with privacy.

These three values are ordered such that
noAuthNoPriv is less than authNoPriv and
authNoPriv is less than authPriv.

"

SYNTAX INTEGER { noAuthNoPriv(1),
authNoPriv(2),
authPriv(3)
}

SnmpAdminString ::= TEXTUAL-CONVENTION

DISPLAY-HINT "255t"

STATUS

current

DESCRIPTION "An octet string containing administrative information, preferably in human-readable form.

To facilitate internationalization, this information is represented using the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 transformation format described in [RFC2279].

Since additional code points are added by amendments to the 10646 standard from time

to time, implementations must be prepared to encounter any code point from 0x00000000 to 0x7fffffff. Byte sequences that do not correspond to the valid UTF-8 encoding of a code point or are outside this range are prohibited.

The use of control codes should be avoided.

When it is necessary to represent a newline, the control code sequence CR LF should be used.

The use of leading or trailing white space should be avoided.

For code points not directly supported by user interface hardware or software, an alternative means of entry and display, such as hexadecimal, may be provided.

For information encoded in 7-bit US-ASCII, the UTF-8 encoding is identical to the US-ASCII encoding.

UTF-8 may require multiple bytes to represent a single character / code point; thus the length of this object in octets may be different from the number of characters encoded. Similarly, size constraints refer to the number of encoded octets, not the number of characters represented by an encoding.

Note that when this TC is used for an object that is used or envisioned to be used as an index, then a SIZE restriction MUST be specified so that the number of sub-identifiers for any object instance does not exceed the limit of 128, as defined by [RFC3416].

Note that the size of an SnmpAdminString object is measured in octets, not characters.

"

SYNTAX OCTET STRING (SIZE (0..255))

-- Administrative assignments *****

snmpFrameworkAdmin

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 1 }

snmpFrameworkMIBObjects

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 2 }

snmpFrameworkMIBConformance

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 3 }

-- the snmpEngine Group *****

snmpEngine OBJECT IDENTIFIER ::= { snmpFrameworkMIBObjects 1 }

snmpEngineID OBJECT-TYPE

SYNTAX SnmpEngineID

MAX-ACCESS read-only

STATUS current

DESCRIPTION "An SNMP engine's administratively-unique identifier.

This information SHOULD be stored in non-volatile
storage so that it remains constant across
re-initializations of the SNMP engine.

"

::= { snmpEngine 1 }

snmpEngineBoots OBJECT-TYPE

SYNTAX INTEGER (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of times that the SNMP engine has
(re-)initialized itself since snmpEngineID
was last configured.

"

::= { snmpEngine 2 }

snmpEngineTime OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of seconds since the value of

```

        the snmpEngineBoots object last changed.
        When incrementing this object's value would
        cause it to exceed its maximum,
        snmpEngineBoots is incremented as if a
        re-initialization had occurred, and this
        object's value consequently reverts to zero.
    "
    ::= { snmpEngine 3 }

snmpEngineMaxMessageSize OBJECT-TYPE
    SYNTAX      INTEGER (484..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "The maximum length in octets of an SNMP message
                which this SNMP engine can send or receive and
                process, determined as the minimum of the maximum
                message size values supported among all of the
                transports available to and supported by the engine.
    "
    ::= { snmpEngine 4 }

-- Registration Points for Authentication and Privacy Protocols **

snmpAuthProtocols OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "Registration point for standards-track
                authentication protocols
                used in SNMP Management
                Frameworks.
    "
    ::= { snmpFrameworkAdmin 1 }

snmpPrivProtocols OBJECT-IDENTITY
    STATUS      current
    DESCRIPTION "Registration point for standards-track privacy
                protocols used in SNMP Management Frameworks.
    "
    ::= { snmpFrameworkAdmin 2 }

-- Conformance information *****

snmpFrameworkMIBCompliances
    OBJECT IDENTIFIER ::= {snmpFrameworkMIBConformance 1}
snmpFrameworkMIBGroups
    OBJECT IDENTIFIER ::= {snmpFrameworkMIBConformance 2}

```



```

-- compliance statements

snmpFrameworkMIBCompliance MODULE-COMPLIANCE
    STATUS    current
    DESCRIPTION "The compliance statement for SNMP engines which
                implement the SNMP Management Framework MIB.
                "
    MODULE    -- this module
    MANDATORY-GROUPS { snmpEngineGroup }

    ::= { snmpFrameworkMIBCompliances 1 }

-- units of conformance

snmpEngineGroup
OBJECT-GROUP
    OBJECTS {
        snmpEngineID,
        snmpEngineBoots,
        snmpEngineTime,
        snmpEngineMaxMessageSize
    }
    STATUS    current
    DESCRIPTION "A collection of objects for identifying and
                determining the configuration and current timeliness

                values of an SNMP engine.
                "

    ::= { snmpFrameworkMIBGroups 1 }

END

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

DOCS-CABLE-DEVICE-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    IpAddress,
    Unsigned32,
    Counter32,
    Integer32,
    zeroDotZero,

```

```

mib-2
    FROM SNMPv2-SMI      -- RFC 2578
RowStatus,
RowPointer,
DateAndTime,
TruthValue,
StorageType
    FROM SNMPv2-TC      -- RFC 2579
InetAddressType,
InetAddress
    FROM INET-ADDRESS-MIB -- RFC 4001
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF     -- RFC 2580
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

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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 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 OSSv1.1 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

"IP address of the network management station that is permitted to read and create entries in the docsDevNmAccessTable table. The IP address must be unique within the community. The IP address must be in the same address family as the community string. The IP address must be in the same address family as the community string. The IP address must be in the same address family as the community string."

"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 2³¹. 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 }

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 }

```
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 }
```

```
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 }
```

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  MAX-ACCESS  
    not-accessible  
    STATUS      current  
    DESCRIPTION  
        "The type of internet address of docsDevCpeInetAddr."  
    ::= { docsDevCpeInetEntry 1 }
```

```
docsDevCpeInetAddr OBJECT-TYPE  
    SYNTAX      InetAddress  
    MAX-ACCESS  not-accessible  
    STATUS      current  
    DESCRIPTION  
        "The Internet address to which this entry applies.  
  
        Implementors need to be aware that if the size of  
        docsDevCpeInetAddr exceeds 114 octets OIDs of  
        instances of columns in this row will have more  
        than 128 sub-identifiers and cannot be accessed  
        using SNMPv1, SNMPv2c, or SNMPv3. Only unicast  
        address are allowed for this object."  
    ::= { docsDevCpeInetEntry 2 }
```

```
docsDevCpeInetSource OBJECT-TYPE  
    SYNTAX      INTEGER {  
        manual(2),  
        learned(3)  
    }  
    MAX-ACCESS  read-only  
    STATUS      current  
    DESCRIPTION  
        "This object  
describes how this entry was created. If  
the value is manual(2), this row was created by a
```

network management action (either configuration or SNMP set). If set to learned(3), then it was found via looking at the source IP address of a received packet."

::= { docsDevCpeInetEntry 3 }

docsDevCpeInetRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Standard object to manipulate rows. To create a row in this table, one only needs to specify this object.

Management stations SHOULD use the create-and-go mechanism for creating rows in this table."

::= { docsDevCpeInetEntry 4 }

--

-- Placeholder for notifications/traps.

--

-- erroneous, DO NOT USE docsDevNotification

docsDevNotification OBJECT IDENTIFIER ::= { docsDev 2 }

-- erroneous, DO NOT USE docsDevNotification

docsDevNotifications

OBJECT IDENTIFIER ::= { docsDev 0 }

--

-- RFC 2669 Conformance definitions

--

docsDevConformance OBJECT IDENTIFIER ::= { docsDev 3 }

docsDevGroups OBJECT IDENTIFIER ::= { docsDevConformance 1 }

docsDevCompliances OBJECT IDENTIFIER ::= { docsDevConformance 2 }

docsDevBasicCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"The RFC 2669 compliance statement for MCNS/DOCSIS Cable Modems and Cable Modem Termination Systems."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup

DESCRIPTION

"Mandatory in Cable Modems, optional in Cable Modem Termination Systems."

GROUP docsDevEventGroup

DESCRIPTION

"Mandatory in Cable Modems, optional in Cable Modem Termination Systems."

GROUP docsDevFilterGroup

DESCRIPTION

"Mandatory in Cable Modems, optional in Cable Modem Termination Systems."

GROUP

docsDevNmAccessGroup

DESCRIPTION

"This group is only implemented in devices that do not implement the SNMPv3 User Security Model. It SHOULD NOT be implemented by devices that conform to SNMPv3.

For devices that do not implement SNMPv3 or later, this group is Mandatory in Cable Modems and is optional in Cable Modem Termination Systems."

GROUP docsDevServerGroup

DESCRIPTION

"This group is implemented only in Cable Modems, and is not implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroup

DESCRIPTION

"This group is Mandatory in Cable Modems and optional in Cable Modem Termination Systems."

GROUP docsDevCpeGroup

DESCRIPTION

"This group is Mandatory in Cable Modems, and is not implemented in Cable Modem Termination Systems."

OBJECT docsDevSTPControl

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.
Devices need only support noStFilterBpdu(2)."

OBJECT docsDevNmAccessIp

DESCRIPTION

"It is compliant to recognize the IP address
255.255.255.255 as referring to any NMS."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.
Devices need only support local(0). An agent need not
enforce that trap or syslog logging be accompanied
by local(0) or localVolatile(3) logging."

::= { docsDevCompliances 1 }

docsDevBaseGroup OBJECT-GROUP

OBJECTS {

docsDevRole,
docsDevDateTime,

docsDevResetNow,
docsDevSerialNumber,
docsDevSTPControl

}

STATUS current

DESCRIPTION

"A collection of objects providing device status

and

control."

::= { docsDevGroups 1 }

docsDevNmAccessGroup OBJECT-GROUP

OBJECTS {

docsDevNmAccessIp,
docsDevNmAccessIpMask,
docsDevNmAccessCommunity,
docsDevNmAccessControl,
docsDevNmAccessInterfaces,
docsDevNmAccessStatus

}

STATUS deprecated

DESCRIPTION

"A collection of objects for controlling access to SNMP objects on cable devices.

This group has been deprecated because all the objects have been deprecated in favor of SNMPv3 and Coexistence MIBs."

::= { docsDevGroups 2 }

docsDevSoftwareGroup OBJECT-GROUP

OBJECTS {

docsDevSwServer,
docsDevSwFilename,
docsDevSwAdminStatus,
docsDevSwOperStatus,
docsDevSwCurrentVers

}

STATUS deprecated

DESCRIPTION

"A collection of objects
for controlling software
downloads.

This group has been deprecated and replaced by docsDevSoftwareGroupV2. Object docsDevSwServer has been replaced by docsDevSwServerAddressType and docsDevSwServerAddress, and docsDevSwServerTransportProtocol has been added to support TFTP and HTTP firmware downloads."

::= { docsDevGroups 3 }

docsDevServerGroup OBJECT-GROUP

OBJECTS {

docsDevServerBootState,
docsDevServerDhcp,
docsDevServerTime,
docsDevServerTftp,
docsDevServerConfigFile

}

STATUS deprecated

DESCRIPTION

"A collection of objects providing status about server provisioning.

This group has been deprecated and replaced by docsDevServerGroupV2. The objects docsDevServerDhcp,

docsDevServerTime, and docsDevServerTftp have
 been replaced by docsDevServerDhcpAddressType,
 docsDevServerDhcpAddress, docsDevServerTimeAddressType,
 docsDevServerTimeAddress,
 docsDevServerConfigTftpAddressType, and
 docsDevServerConfigTftpAddress."
 ::= { docsDevGroups 4 }

docsDevEventGroup OBJECT-GROUP

OBJECTS {
 docsDevEvControl,
 docsDevEvSyslog,
 docsDevEvThrottleAdminStatus,
 docsDevEvThrottleInhibited,
 docsDevEvThrottleThreshold,
 docsDevEvThrottleInterval,
 docsDevEvReporting,
 docsDevEvFirstTime,
 docsDevEvLastTime,
 docsDevEvCounts,
 docsDevEvLevel,
 docsDevEvId,
 docsDevEvText
 }
 STATUS deprecated
 DESCRIPTION
 "A collection of objects used to control and monitor
 events.

This group has been deprecated and replaced by
 docsDevEventGroupV2.
 The object docsDevEvSyslog has

been replaced by docsDevEvSyslogAddressType and
 docsDevEvSyslogAddress, and docsDevEvThrottleInhibited
 has been replaced by
 docsDevEvThrottleThresholdExceeded."
 ::= { docsDevGroups 5 }

docsDevFilterGroup OBJECT-GROUP

OBJECTS {
 docsDevFilterLLCUnmatchedAction,
 docsDevFilterIpDefault,
 docsDevFilterLLCStatus,
 docsDevFilterLLCIfIndex,

```

docsDevFilterLLCProtocolType,
docsDevFilterLLCProtocol,
docsDevFilterLLCMatches,
docsDevFilterIpControl,
docsDevFilterIpIfIndex,
docsDevFilterIpStatus,
docsDevFilterIpDirection,
docsDevFilterIpBroadcast,
docsDevFilterIpSaddr,
docsDevFilterIpSmask,
docsDevFilterIpDaddr,
docsDevFilterIpDmask,
docsDevFilterIpProtocol,
docsDevFilterIpSourcePortLow,
docsDevFilterIpSourcePortHigh,
docsDevFilterIpDestPortLow,
docsDevFilterIpDestPortHigh,
docsDevFilterIpMatches,
docsDevFilterIpTos,
docsDevFilterIpTosMask,
docsDevFilterIpContinue,
docsDevFilterIpPolicyId,
docsDevFilterPolicyId,
docsDevFilterPolicyStatus,
docsDevFilterPolicyPtr,
docsDevFilterTosStatus,
docsDevFilterTosAndMask,
docsDevFilterTosOrMask
}
STATUS    deprecated
DESCRIPTION
"A collection of objects to specify filters at the link
layer and IPv4 layer.

```

This group has been deprecated and replaced by various groups from the DiffServ MIB."

```

::= { docsDevGroups 6 }

```

```

docsDevCpeGroup OBJECT-GROUP
OBJECTS {
docsDevCpeEnroll,
docsDevCpeIpMax,
docsDevCpeSource,
docsDevCpeStatus

```

```

    }
    STATUS    deprecated
    DESCRIPTION
        "A collection of objects used to control the number
        and specific values of IPv4 addresses allowed for
        associated Customer Premises Equipment (CPE).

        This group has been deprecated and replaced by
        docsDevInetCpeGroup. The object docsDevCpeSource has
        been replaced by docsDevCpeInetSource, and
        docsDevCpeStatus has been replaced by
        docsDevCpeInetRowStatus."
    ::= { docsDevGroups 7 }

--
-- RFC 4639 Conformance definitions
--

docsDevGroupsV2    OBJECT IDENTIFIER ::= { docsDevConformance 3 }
docsDevCompliancesV2 OBJECT IDENTIFIER ::= { docsDevConformance 4 }

docsDevCmCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for DOCSIS Cable Modems.

        This compliance statement applies to implementations
        of DOCSIS versions that are not
        IPv6 capable."

MODULE DIFFSERV-MIB -- RFC 3289

MANDATORY-GROUPS {
    diffServMIBDataPathGroup,
    diffServMIBClfrGroup,
    diffServMIBClfrElementGroup,
    diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup,
    diffServMIBDscpMarkActGroup,
    diffServMIBCounterGroup,
    diffServMIBAlgDropGroup

}

OBJECT diffServDataPathStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }

```

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServClfrStatus -- same as RFC 3289

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServClfrElementStatus -- same as RFC 3289

SYNTAX RowStatus { active(1)

}

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServMultiFieldClfrAddrType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServMultiFieldClfrSrcAddr

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServMultiFieldClfrDstAddr

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServAlgDropStatus -- same as RFC 3289

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServDataPathStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServClfrStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServClfrElementStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServMultiFieldClfrStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServActionStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServCountActStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServAlgDropStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServAlgDropType
SYNTAX INTEGER { alwaysDrop(5) }
DESCRIPTION
"This object is only used to provide packet
filtering. Implementations need not support other

values of this enumeration."

MODULE -- docsDev

```
MANDATORY-GROUPS {  
    docsDevBaseGroup,  
    docsDevBaseIgmpGroup,  
    docsDevBaseMaxCpeGroup,  
    docsDevSoftwareGroupV2,  
    docsDevServerGroupV2,  
    docsDevEventGroupV2,  
    docsDevFilterLLCGroup  
}
```

-- conditionally mandatory groups

```
GROUP docsDevInetCpeGroup  
    DESCRIPTION  
        "This group is  
        optional in Cable Modems."
```

```
OBJECT docsDevDateTime  
    MIN-ACCESS read-only  
    DESCRIPTION  
        "It is compliant to implement this object as read-only."
```

```
OBJECT docsDevSTPControl  
    SYNTAX INTEGER { noStFilterBpdu(2) }  
    MIN-ACCESS read-only  
    DESCRIPTION  
        "It is compliant to implement this object as read-only.  
        Devices need only support noStFilterBpdu(2)."
```

```
OBJECT docsDevIgmpModeControl  
    SYNTAX INTEGER { passive(1) }  
    MIN-ACCESS read-only  
    DESCRIPTION  
        "It is compliant to implement this object as read-only.  
        Devices need only support passive(1)."
```

```
OBJECT docsDevSwServerAddressType  
    SYNTAX InetAddressType { ipv4(1) }  
    DESCRIPTION  
        "An implementation is only required to support IPv4  
        addresses."
```

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerDhcpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerDhcpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerConfigTftpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT

docsDevServerConfigTftpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.
Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4
addresses."

OBJECT docsDevEvSyslogAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4
addresses."

OBJECT docsDevSwServerTransportProtocol

SYNTAX INTEGER { tftp(1) }

DESCRIPTION

"An implementation is only required to support TFTP
software image downloads."

::= { docsDevCompliancesV2

1 }

docsDevCmtsCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for DOCSIS Cable Modem
Termination Systems.

This compliance statement applies to implementations
of DOCSIS versions that are not IPv6 capable."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseIgmpGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseMaxCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevServerGroupV2

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevEventGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevFilterLLCGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

GROUP docsDevInetCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

OBJECT docsDevDateTime

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl

SYNTAX INTEGER { noStFilterBpdu(2) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIgmpModeControl

SYNTAX INTEGER { passive(1)

}
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only.
Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevSwServerAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only.
Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevEvSyslogAddress
SYNTAX InetAddress
(SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevSwServerTransportProtocol
SYNTAX INTEGER { tftp(1) }
DESCRIPTION
"An implementation is only required to support TFTP
software image downloads."

::= { docsDevCompliancesV2 2 }

docsDevBaseIgmpGroup OBJECT-GROUP

OBJECTS {

docsDevIgmpModeControl

}

STATUS current

DESCRIPTION

"An object providing cable device IGMP status and control."

::= { docsDevGroupsV2 1 }

docsDevBaseMaxCpeGroup OBJECT-GROUP

OBJECTS {

docsDevMaxCpe

}

STATUS current

DESCRIPTION

"An object providing management of the maximum number of CPEs permitted access through a cable modem."

::= { docsDevGroupsV2 2 }

docsDevNmAccessExtGroup OBJECT-GROUP

OBJECTS {

docsDevNmAccessTrapVersion

}

STATUS deprecated

DESCRIPTION

"An object, in addition to the objects in docsDevNmAccessGroup, for controlling access to SNMP objects on cable devices.

This group is included in this MIB due to existing implementations of docsDevNmAccessTrapVersion in DOCSIS cable modems.

This group has been deprecated because the object has been deprecated in favor of SNMPv3 and Coexistence MIBs."

::= { docsDevGroupsV2 3 }

docsDevSoftwareGroupV2 OBJECT-GROUP

OBJECTS {

docsDevSwFilename,

docsDevSwAdminStatus,

docsDevSwOperStatus,

```

docsDevSwCurrentVers,
docsDevSwServerAddressType,
docsDevSwServerAddress,
docsDevSwServerTransportProtocol
}
STATUS    current
DESCRIPTION
    "A collection of
objects for controlling software
    downloads. This group replaces docsDevSoftwareGroup."
::= { docsDevGroupsV2 4 }

```

docsDevServerGroupV2 OBJECT-GROUP

```

OBJECTS {
docsDevServerBootState,
docsDevServerDhcpAddressType,
docsDevServerDhcpAddress,
docsDevServerTimeAddressType,
docsDevServerTimeAddress,
docsDevServerConfigTftpAddressType,
docsDevServerConfigTftpAddress,
docsDevServerConfigFile
}
STATUS    current
DESCRIPTION
    "A collection of objects providing status about server
provisioning. This group replaces docsDevServerGroup."
::= { docsDevGroupsV2 5 }

```

docsDevEventGroupV2 OBJECT-GROUP

```

OBJECTS {
docsDevEvControl,
docsDevEvThrottleAdminStatus,
docsDevEvThrottleThreshold,
docsDevEvThrottleInterval,
docsDevEvReporting,
docsDevEvFirstTime,
docsDevEvLastTime,
docsDevEvCounts,
docsDevEvLevel,
docsDevEvId,
docsDevEvText,
docsDevEvSyslogAddressType,
docsDevEvSyslogAddress,
docsDevEvThrottleThresholdExceeded
}

```

STATUS current

DESCRIPTION

"A collection of objects used to control and monitor events. This group replaces docsDevEventGroup. The event reporting mechanism, and more specifically docsDevEvReporting, can be used to take advantage of the event reporting features of RFC3413 and RFC3014."

::= { docsDevGroupsV2 6 }

docsDevFilterLLCGroup OBJECT-GROUP

OBJECTS {

docsDevFilterLLCUnmatchedAction,
docsDevFilterLLCStatus,
docsDevFilterLLCIfIndex,
docsDevFilterLLCProtocolType,
docsDevFilterLLCProtocol,
docsDevFilterLLCMatches

}

STATUS

current

DESCRIPTION

"A collection of objects to specify link layer filters."

::= { docsDevGroupsV2 7 }

docsDevInetCpeGroup OBJECT-GROUP

OBJECTS {

docsDevCpeEnroll,
docsDevCpeIpMax,
docsDevCpeInetSource,
docsDevCpeInetRowStatus

}

STATUS current

DESCRIPTION

"A collection of objects used to control the number and specific values of Internet (e.g., IPv4 and IPv6) addresses allowed for associated Customer Premises Equipment (CPE)."

::= { docsDevGroupsV2 8 }

END

Found in path(s):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-CABLE-DEVICE-MIB

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

IPSEC-SPD-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, Integer32,
Unsigned32, mib-2 FROM SNMPv2-SMI
 -- [RFC2578]

TEXTUAL-CONVENTION, RowStatus, TruthValue,
TimeStamp, StorageType, VariablePointer
 FROM SNMPv2-TC
 -- [RFC2579]

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
 FROM SNMPv2-CONF
 -- [RFC2580]

InterfaceIndex
 FROM IF-MIB
 -- [RFC2863]

diffServMIBMultiFieldClfrGroup, IfDirection,
diffServMultiFieldClfrNextFree
 FROM DIFFSERV-MIB
 -- [RFC3289]

InetAddressType, InetAddress
 FROM INET-ADDRESS-MIB
 -- [RFC4001]

SnmppAdminString 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:

yyyymmddThhmmss/yyyymmddThhmmss

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

The first 'yyyymmddThhmmss' sub-string indicates the start
date and time. The second 'yyyymmddThhmmss' sub-string
indicates the end date and time. The character 'T' within
these sub-strings indicates the beginning of the time
portion of each sub-string. The solidus character '/'
separates the start from the end date and time. The end
date and time MUST be subsequent to the start date and

time.

There are also two allowed substitutes for a
'yyyymmddThhmmss' sub-string: one for the start date and

time, and one for the end date and time.

If the start date and time are replaced with the string 'THISANDPRIOR', this sub-string would indicate the current date and time and the previous dates and time.

If the end date and time are replaced with the string 'THISANDFUTURE', this sub-string would indicate the current date and time and the subsequent dates and time.

Any of the following SHOULD be considered a 'wrongValue' error:

- Setting a value with the end date and time earlier than or equal to the start date and time.
- Setting the start date and time to 'THISANDFUTURE'.
- Setting the end date and time to 'THISANDPRIOR'."

REFERENCE "RFC 3060, 3269"

SYNTAX OCTET STRING (SIZE (0..31))

--

-- Policy group definitions

--

spdLocalConfigObjects

OBJECT IDENTIFIER

::= { spdConfigObjects 1 }

spdIngressPolicyGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the global system policy group that is to be applied on ingress packets (i.e., arriving at an interface from a network) when a given endpoint does not contain a policy definition in the spdEndpointToGroupTable. Its value can be used as an index into the spdGroupContentsTable to retrieve a list of policies. A zero length string indicates that no system-wide policy exists and the default policy of 'drop' SHOULD be executed for ingress packets until one is imposed by either this object or by the endpoint processing a given packet.

This object MUST be persistent"

DEFVAL { "" }

::= { spdLocalConfigObjects 1 }

spdEgressPolicyGroupName OBJECT-TYPE

SYNTAX

SnmpAdminString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the policy group containing the global system policy that is to be applied on egress packets (i.e., packets leaving an interface and entering a network) when a given endpoint does not contain a policy definition in the spdEndpointToGroupTable. Its value can be used as an index into the spdGroupContentsTable to retrieve a list of policies. A zero length string indicates that no system-wide policy exists and the default policy of 'drop' SHOULD be executed for egress packets until one is imposed by either this object or by the endpoint processing a given packet.

This object MUST be persistent"

DEFVAL { "" }

::= { spdLocalConfigObjects 2 }

spdEndpointToGroupTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdEndpointToGroupEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table maps policies (groupings) onto an endpoint (interface). A policy group assigned to an endpoint is then used to control access to the network traffic passing through that endpoint.

If an endpoint has been configured with a policy group and no rule within that policy group matches that packet, the default action in this case SHALL be to drop the packet.

If no policy group has been assigned to an endpoint, then the policy group specified by spdIngressPolicyGroupName MUST be used on traffic inbound from the network through that endpoint, and the policy group specified by spdEgressPolicyGroupName MUST be used for traffic outbound to the network through that endpoint."

::= { spdConfigObjects 2 }

spdEndpointToGroupEntry OBJECT-TYPE

SYNTAX SpdEndpointToGroupEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A mapping assigning a policy group to an endpoint."

INDEX { spdEndGroupDirection, spdEndGroupInterface }

::= { spdEndpointToGroupTable 1 }

SpdEndpointToGroupEntry ::= SEQUENCE {

spdEndGroupDirection	IfDirection,
spdEndGroupInterface	InterfaceIndex,
spdEndGroupName	SnmpAdminString,
spdEndGroupLastChanged	TimeStamp,
spdEndGroupStorageType	StorageType,
spdEndGroupRowStatus	RowStatus

}

spdEndGroupDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates which direction of packets crossing the interface are associated with which spdEndGroupName object. Ingress packets, or packets into the device match when this value is inbound(1). Egress packets or packets out

of the device match when this value is outbound(2)."

::= { spdEndpointToGroupEntry 1 }

spdEndGroupInterface OBJECT-TYPE

SYNTAX InterfaceIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value matches the IF-MIB's ifTable's ifIndex column and indicates the interface associated with a given endpoint. This object can be used to uniquely identify an endpoint that a set of policy groups are applied to."

::= { spdEndpointToGroupEntry 2 }

spdEndGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The policy group name to apply at this endpoint. The value of the spdEndGroupName object is then used as an index into the spdGroupContentsTable to come up with a list of rules that MUST be applied at this endpoint."

::= { spdEndpointToGroupEntry 3 }

spdEndGroupLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdEndpointToGroupEntry 4 }

spdEndGroupStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdEndpointToGroupEntry 5 }

spdEndGroupRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object is considered 'notReady' and MUST NOT be set to active until one or more active rows exist within the spdGroupContentsTable for the group referenced by the spdEndGroupName object."

::= { spdEndpointToGroupEntry 6 }

--

-- policy group definition table

--

spdGroupContentsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of rules and/or subgroups contained within a given policy group. For a given value of spdGroupContName, the set of rows sharing that value forms a 'group'. The rows in a group MUST be processed according to the value of the spdGroupContPriority

object

in each row. The processing MUST be executed starting with the lowest value of spdGroupContPriority and in ascending order thereafter.

If an action is executed as the result of the processing of a row in a group, the processing of further rows in that group MUST stop. Iterating to the next policy group row by finding the next largest spdGroupContPriority object SHALL only be done if no actions were run while processing the current row for a given packet."

::= { spdConfigObjects 3 }

spdGroupContentsEntry OBJECT-TYPE

SYNTAX SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a given sub-component within a policy group. A sub-component is either a rule or another group as indicated by spdGroupContComponentType and referenced by spdGroupContComponentName."

```
INDEX { spdGroupContName,  
spdGroupContPriority }  
::= { spdGroupContentsTable 1 }
```

```
SpdGroupContentsEntry ::= SEQUENCE {  
    spdGroupContName          SnmpAdminString,  
    spdGroupContPriority       Integer32,  
    spdGroupContFilter        VariablePointer,  
    spdGroupContComponentType INTEGER,  
    spdGroupContComponentName SnmpAdminString,  
    spdGroupContLastChanged    TimeStamp,  
    spdGroupContStorageType    StorageType,  
    spdGroupContRowStatus      RowStatus  
}
```

spdGroupContName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name of the group associated with this row. A 'group' is formed by all the rows in this table that have the same value of this object."

::= { spdGroupContentsEntry 1 }

spdGroupContPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority (sequence number) of the sub-component in a group that this row represents. This value indicates the order that each row of this table MUST be processed from low to high. For example, a row with a priority of 0 is processed before a row with a priority of 1, a 1 before a 2, etc."

::= { spdGroupContentsEntry 2 }

spdGroupContFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdGroupContFilter points to a filter that is evaluated to determine whether the spdGroupContComponentName within

this row is exercised. Managers can use this object to classify groups of rules, or subgroups, together in order to achieve a greater degree of control and optimization over the execution order of the items within the group. If the

filter evaluates to false, the rule or subgroup will be skipped and the next rule or subgroup will be evaluated instead. This value can be used to indicate a scalar or row in a table. When indicating a row in a table, this value MUST point to the first column instance in that row.

An example usage of this object would be to limit a group of rules to executing only when the IP packet being processed is designated to be processed by IKE. This effectively creates a group of IKE-specific rules.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable are defined in this MIB:

- diffServMultiFieldClfrTable
- spdIpOffsetFilterTable
- spdTimeFilterTable
- spdCompoundFilterTable
- spdTrueFilter
- spdIpsoHeaderFilterTable

Implementations MAY choose to provide support for other filter tables or scalars.

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, a row in this table is applied to a packet and the value of this column in that row references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

DEFVAL { spdTrueFilterInstance }

::= { spdGroupContentsEntry 3 }

spdGroupContComponentType OBJECT-TYPE

SYNTAX INTEGER { group(1), rule(2) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the spdGroupContComponentName object
is the name of another group
defined within the
spdGroupContentsTable or is the name of a rule defined

within the spdRuleDefinitionTable."

DEFVAL { rule }

::= { spdGroupContentsEntry 4 }

spdGroupContComponentName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The name of the policy rule or subgroup contained within
this row, as indicated by the spdGroupContComponentType
object."

::= { spdGroupContentsEntry 5 }

spdGroupContLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified
or created either through SNMP SETs or by some other
external means.

If this row has not been modified since the last
re-initialization of the network management subsystem,
this object SHOULD have a zero value."

::= { spdGroupContentsEntry
6 }

spdGroupContStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that

were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdGroupContentsEntry 7 }

spdGroupContRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object MUST NOT be set to active until the row to which the spdGroupContComponentName points to exists and is active.

If active, this object MUST remain active unless one of the following two conditions are met:

- I. No active row in spdEndpointToGroupTable exists that references this row's group (i.e., indicate this row's spdGroupContName).
- II. Or at least one other active row in this table has a matching spdGroupContName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

::= { spdGroupContentsEntry 8 }

--

-- policy definition table

--

spdRuleDefinitionTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdRuleDefinitionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines a rule by associating a filter
or a set of filters to an action to be executed."

::= { spdConfigObjects 4 }

spdRuleDefinitionEntry OBJECT-TYPE

SYNTAX SpdRuleDefinitionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row defining a particular rule definition. A rule
definition binds a filter pointer to an action pointer."

INDEX { spdRuleDefName }

::= { spdRuleDefinitionTable 1 }

SpdRuleDefinitionEntry ::= SEQUENCE {

spdRuleDefName SnmpAdminString,

spdRuleDefDescription SnmpAdminString,

spdRuleDefFilter VariablePointer,

spdRuleDefFilterNegated TruthValue,

spdRuleDefAction VariablePointer,

spdRuleDefAdminStatus SpdAdminStatus,

spdRuleDefLastChanged TimeStamp,

spdRuleDefStorageType StorageType,

spdRuleDefRowStatus RowStatus

}

spdRuleDefName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"spdRuleDefName is the administratively assigned name of

the rule referred to by the spdGroupContComponentName
object."

::= { spdRuleDefinitionEntry 1 }

spdRuleDefDescription OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A user defined string. This field MAY be used for

administrative tracking purposes."

DEFVAL { "" }

::= { spdRuleDefinitionEntry 2 }

spdRuleDefFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdRuleDefFilter points to a filter that is used to evaluate whether the action associated with this row is executed or not. The action will only execute if the filter referenced by this object evaluates to TRUE after first applying any negation required by the spdRuleDefFilterNegated object.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable

are defined in

this MIB. Implementations MAY choose to provide support for other filter tables or scalars as well:

diffServMultiFieldClfrTable

spdIpOffsetFilterTable

spdTimeFilterTable

spdCompoundFilterTable

spdTrueFilter

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

::= { spdRuleDefinitionEntry 3 }

spdRuleDefFilterNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS

read-create

STATUS current

DESCRIPTION

"spdRuleDefFilterNegated specifies whether or not the results of the filter referenced by the spdRuleDefFilter object is negated."

DEFVAL { false }

::= { spdRuleDefinitionEntry 4 }

spdRuleDefAction OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

spdCompoundActionTable
ipsaSaPreconfiguredActionTable
ipiaIkeActionTable
ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath spdStaticActions.

If this object is set to a pointer to a row in an unsupported (or unknown) table, an inconsistentValue

error MUST be returned.

If this object is set to point to a non-existent row in an otherwise supported table, an inconsistentName error MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

::= { spdRuleDefinitionEntry 5 }

spdRuleDefAdminStatus OBJECT-TYPE

SYNTAX SpdAdminStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the current rule definition is considered active. If the value is enabled, the rule MUST be evaluated when processing packets. If the value is disabled, the packet processing MUST continue as if this rule's filter had effectively failed."

DEFVAL { enabled }

::= { spdRuleDefinitionEntry 6 }

spdRuleDefLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified

or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdRuleDefinitionEntry 7 }

spdRuleDefStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have

to be writable."

DEFVAL { nonVolatile }

::= { spdRuleDefinitionEntry 8 }

spdRuleDefRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on

whether other

objects in this conceptual row can be modified.

This object MUST NOT be set to active until the containing conditions, filters, and actions have been defined. Once active, it MUST remain active until no active policyGroupContents entries are referencing it. A failed attempt to do so MUST return an inconsistentValue error."

::= { spdRuleDefinitionEntry 9 }

--

-- Policy compound filter definition table

--

spdCompoundFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table defining compound filters and their associated parameters. A row in this table can be pointed to by a spdRuleDefFilter object."

::= { spdConfigObjects 5 }

spdCompoundFilterEntry OBJECT-TYPE

SYNTAX SpdCompoundFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry

in the spdCompoundFilterTable. Each entry in this table represents a compound filter. A filter defined by this table is considered to have a TRUE return value if and only if:

spdCompFiltLogicType is AND and all of the sub-filters associated with it, as defined in the spdSubfiltersTable, are all true themselves (after applying any required

negation, as defined by the ficFilterIsNegated object).

spdCompFiltLogicType is OR and at least one of the sub-filters associated with it, as defined in the spdSubfiltersTable, is true itself (after applying any required negation, as defined by the ficFilterIsNegated object."

INDEX { spdCompFiltName }
::= { spdCompoundFilterTable 1 }

SpdCompoundFilterEntry ::= SEQUENCE {
 spdCompFiltName SnmpAdminString,
 spdCompFiltDescription SnmpAdminString,
 spdCompFiltLogicType
 SpdBooleanOperator,
 spdCompFiltLastChanged TimeStamp,
 spdCompFiltStorageType StorageType,
 spdCompFiltRowStatus RowStatus
}

spdCompFiltName OBJECT-TYPE
 SYNTAX SnmpAdminString (SIZE(1..32))
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "A user definable string. This value is used as an index
 into this table."
 ::= { spdCompoundFilterEntry 1 }

spdCompFiltDescription OBJECT-TYPE
 SYNTAX SnmpAdminString
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "A user definable string. This field MAY be used for
 your administrative tracking purposes."
 DEFVAL { "" }
 ::= { spdCompoundFilterEntry 2 }

spdCompFiltLogicType OBJECT-TYPE
 SYNTAX SpdBooleanOperator
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "Indicates whether the sub-component filters of this
 compound
filter are functionally ANDed or ORed together."
 DEFVAL { and }
 ::= { spdCompoundFilterEntry 3 }

spdCompFiltLastChanged OBJECT-TYPE
 SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdCompoundFilterEntry 4 }

spdCompFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdCompoundFilterEntry 5 }

spdCompFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once active, it MUST NOT have its value changed if any active rows in the spdRuleDefinitionTable are currently pointing at this row."

::= { spdCompoundFilterEntry 6 }

--

-- Policy filters in a cf table

--

spdSubfiltersTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdSubfiltersEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines a list of filters contained within a given compound filter defined in the spdCompoundFilterTable."

::= { spdConfigObjects 6 }

spdSubfiltersEntry OBJECT-TYPE

SYNTAX SpdSubfiltersEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the spdSubfiltersTable. There is an entry in this table for each sub-filter of all compound filters present in the spdCompoundFilterTable."

INDEX { spdCompFiltName, spdSubFiltPriority }

::= { spdSubfiltersTable 1 }

SpdSubfiltersEntry ::= SEQUENCE {

spdSubFiltPriority Integer32,

spdSubFiltSubfilter VariablePointer,

spdSubFiltSubfilterIsNegated TruthValue,

spdSubFiltLastChanged TimeStamp,

spdSubFiltStorageType StorageType,

spdSubFiltRowStatus RowStatus

}

spdSubFiltPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority of a given filter within a compound filter. The order of execution is from lowest to highest priority value (i.e., priority 0 before priority 1, 1 before 2, etc.). Implementations MAY choose to follow this ordering, as set by the manager that created the rows. This can allow a manager to intelligently construct filter lists such that faster filters are evaluated first."

::= { spdSubfiltersEntry 1 }

spdSubFiltSubfilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The OID of the contained filter. The value of this object is a VariablePointer that references the filter to be included in this compound filter.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable are defined in this MIB. Implementations MAY choose to provide support for other filter tables or scalars as well:

diffServMultiFieldClfrTable
spdIpsoHeaderFilterTable
spdIpOffsetFilterTable
spdTimeFilterTable
spdCompoundFilterTable
spdTrueFilter

If this column is set to a VariablePointer value that references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

::= { spdSubfiltersEntry 2 }

spdSubFiltSubfilterIsNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether or not the result of applying this sub-filter is negated."

DEFVAL { false }

::= { spdSubfiltersEntry

3 }

spdSubFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdSubfiltersEntry 4 }

spdSubFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdSubfiltersEntry 5 }

spdSubFiltRowStatus OBJECT-TYPE

SYNTAX

RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object cannot be made active until a filter referenced by the spdSubFiltSubfilter object is both defined and active. An attempt to do so MUST result in an inconsistentValue error.

If active, this object MUST remain active unless one of the following two conditions are met:

- I. No active row in the SpdCompoundFilterTable exists

that has a matching spdCompFiltName.

II. Or, at least one other active row in this table has a matching spdCompFiltName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

```
::=  
{ spdSubfiltersEntry 6 }
```

```
--  
-- Static Filters  
--
```

```
spdStaticFilters OBJECT IDENTIFIER ::= { spdConfigObjects 7 }
```

```
spdTrueFilter OBJECT-TYPE
```

```
SYNTAX Integer32 (1)
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"This scalar indicates a (automatic) true result for a filter. That is, this is a filter that is always true; it is useful for adding as a default filter for a default action or a set of actions."

```
::= { spdStaticFilters 1 }
```

```
spdTrueFilterInstance OBJECT IDENTIFIER ::= { spdTrueFilter 0 }
```

```
--  
-- Policy IP Offset filter definition table  
--
```

```
spdIpOffsetFilterTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF SpdIpOffsetFilterEntry
```

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

```
STATUS current
```

```
DESCRIPTION
```

"This table contains a list of filter definitions to be used within the spdRuleDefinitionTable or the spdSubfiltersTable.

This type of filter is used
to compare an administrator
specified octet string to the octets at a particular
location in a packet."
::= { spdConfigObjects 8 }

spdIpOffsetFilterEntry OBJECT-TYPE

SYNTAX SpdIpOffsetFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A definition of a particular filter."

INDEX { spdIpOffFiltName }

::= { spdIpOffsetFilterTable 1 }

SpdIpOffsetFilterEntry ::= SEQUENCE {

spdIpOffFiltName SnmpAdminString,

spdIpOffFiltOffset Unsigned32,

spdIpOffFiltType INTEGER,

spdIpOffFiltValue OCTET STRING,

spdIpOffFiltLastChanged TimeStamp,

spdIpOffFiltStorageType StorageType,

spdIpOffFiltRowStatus RowStatus

}

spdIpOffFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpOffsetFilterEntry 1 }

spdIpOffFiltOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is the byte offset from the front of the entire IP
packet where the value or arithmetic comparison is done. A
value of '0' indicates the first byte of the packet header.
If this value is greater than the length of the packet, the
filter represented by this row should be considered to
fail."

::= { spdIpOffsetFilterEntry 2 }

spdIpOffFiltType OBJECT-TYPE

```
SYNTAX INTEGER { equal(1),
                 notEqual(2),
                 arithmeticLess(3),
                 arithmeticGreaterOrEqual(4),
                 arithmeticGreater(5),
                 arithmeticLessOrEqual(6) }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This defines the
various tests that are used when
evaluating a given filter.

The various tests definable in this table are as follows:

equal:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', matches

a value in the packet starting at the given offset in
the packet and comparing the entire OCTET STRING of
'spdIpOffFiltValue'. Any values compared this way are
assumed to be unsigned integer values in network byte
order of the same length as 'spdIpOffFiltValue'.

notEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', does
not match a value in the packet starting at the given
offset in the packet and comparing to the entire OCTET
STRING of 'spdIpOffFiltValue'. Any values compared
this way are assumed to be unsigned integer values in
network byte order of the same length as
'spdIpOffFiltValue'.

arithmeticLess:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is
arithmetically less than ('<') the value starting at
the given offset within the packet. The value in the
packet is assumed to be an unsigned integer in network
byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreaterOrEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is
arithmetically greater than or equal to ('>=') the

value starting at the given offset within the packet.
The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreater:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than ('>') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLessOrEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than or equal to ('<=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'."

::= { spdIpOffsetFilterEntry 3 }

spdIpOffFiltValue OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1..1024))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdIpOffFiltValue is used for match comparisons of a packet at spdIpOffFiltOffset."

::= { spdIpOffsetFilterEntry 4 }

spdIpOffFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdIpOffsetFilterEntry 5 }

spdIpOffFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdIpOffsetFilterEntry 6 }

spdIpOffFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of
this object has no effect on whether other
objects in this conceptual row can be modified.

If active, this object MUST remain active if it is

referenced by an active row in another table. An attempt to set it to anything other than active while it is referenced by an active row in another table MUST result in an inconsistentValue error."

::= { spdIpOffsetFilterEntry 7 }

--

-- Time/scheduling filter table

--

spdTimeFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdTimeFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a table of filters that can be used to effectively enable or disable policies based on a valid time range."

::= { spdConfigObjects 9 }

spdTimeFilterEntry OBJECT-TYPE

SYNTAX SpdTimeFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row describing a given time frame for which a policy is filtered on to activate or deactivate the rule.

If all the column objects in a row are true for the current time, the row evaluates as 'true'. More explicitly, the time matching column objects in a row MUST be logically ANDed together to form the boolean true/false for the row."

INDEX { spdTimeFiltName }

::= { spdTimeFilterTable 1 }

SpdTimeFilterEntry ::= SEQUENCE {

spdTimeFiltName	SnmpAdminString,
spdTimeFiltPeriod	SpdTimePeriod,
spdTimeFiltMonthOfYearMask	BITS,
spdTimeFiltDayOfMonthMask	OCTET STRING,
spdTimeFiltDayOfWeekMask	BITS,
spdTimeFiltTimeOfDayMask	SpdTimePeriod,
spdTimeFiltLastChanged	TimeStamp,
spdTimeFiltStorageType	StorageType,
spdTimeFiltRowStatus	RowStatus

}

spdTimeFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An administratively assigned name for this filter."

::= { spdTimeFilterEntry 1 }

spdTimeFiltPeriod OBJECT-TYPE

SYNTAX SpdTimePeriod

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The valid time period for this filter. This column is considered 'true' if the current time is within the range of this object."

DEFVAL { "THISANDPRIOR/THISANDFUTURE" }

::= { spdTimeFilterEntry 2 }

spdTimeFiltMonthOfYearMask OBJECT-TYPE

SYNTAX BITS { january(0), february(1), march(2),
april(3), may(4), june(5), july(6),
august(7), september(8), october(9),
november(10), december(11) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A bit mask that indicates acceptable months of the year. This column evaluates to 'true' if the current month's bit is set."

DEFVAL { { january, february, march,
april, may, june, july,
august, september, october, november, december } }
::= { spdTimeFilterEntry 3 }

spdTimeFiltDayOfMonthMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(8))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Defines which days of the month the current time is valid for. It is a sequence of 64 BITS, where each BIT represents a corresponding day of the month in forward or reverse order. Starting from the left-most bit, the first 31 bits identify the day of the month, counting from the beginning of the month. The following 31 bits (bits 32-62) indicate the day of the month, counting from the end of the

month. For months with fewer than 31 days, the bits that correspond to the non-existent days of that month are ignored (e.g., for non-leap year Februarys, bits 29-31 and 60-62 are ignored).

This column evaluates to 'true' if the current day of the month's bit is set.

For example, a value of 0X'80 00 00 01 00 00 00 00'
indicates that this column evaluates to true on the first
and last days of the month.

The last two bits in the string MUST be zero."

DEFVAL { 'fffffffffffffe'H }

::= { spdTimeFilterEntry 4 }

spdTimeFiltDayOfWeekMask OBJECT-TYPE

SYNTAX BITS { sunday(0), monday(1), tuesday(2),
wednesday(3), thursday(4), friday(5),
saturday(6) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A bit mask that defines which days of the week that the current
time is valid for. This column evaluates to 'true' if the
current day of the week's bit is set."

DEFVAL { { monday, tuesday, wednesday, thursday, friday,
saturday, sunday } }

::= { spdTimeFilterEntry 5 }

spdTimeFiltTimeOfDayMask OBJECT-TYPE

SYNTAX SpdTimePeriod

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates the start and end time of the day for which this
filter evaluates to true. The date portions of the
spdTimePeriod TC are ignored for purposes of evaluating this
mask, and only the time-specific portions are used.

This column evaluates to 'true' if the current time of day
is within the range of the start and end times of the day
indicated by this object."

DEFVAL { "00000000T000000/00000000T240000" }

::= { spdTimeFilterEntry 6 }

spdTimeFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified
or created either through SNMP SETs or by some other

external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this

object SHOULD have a zero value."

::= { spdTimeFilterEntry 7 }

spdTimeFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdTimeFilterEntry 8 }

spdTimeFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set

it to anything other than active while it is referenced by an active row in another table MUST result in an inconsistentValue error."

::= { spdTimeFilterEntry 9 }

--

-- IPSO protection authority filtering

--

spdIpsoHeaderFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdIpsoHeaderFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of IPSO header filter definitions to be used within the spdRuleDefinitionTable or the spdSubfiltersTable. IPSO headers and their values are described in RFC 1108."

REFERENCE "RFC 1108"

::= { spdConfigObjects 10 }

spdIpsoHeaderFilterEntry OBJECT-TYPE

SYNTAX SpdIpsoHeaderFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A definition of a particular filter."

INDEX { spdIpsoHeadFiltName }

::= { spdIpsoHeaderFilterTable 1 }

SpdIpsoHeaderFilterEntry ::= SEQUENCE

```
{
    spdIpsoHeadFiltName          SnmpAdminString,
    spdIpsoHeadFiltType          BITS,
    spdIpsoHeadFiltClassification INTEGER,
    spdIpsoHeadFiltProtectionAuth INTEGER,
    spdIpsoHeadFiltLastChanged   TimeStamp,
    spdIpsoHeadFiltStorageType   StorageType,
    spdIpsoHeadFiltRowStatus     RowStatus
}
```

spdIpsoHeadFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpsoHeaderFilterEntry 1 }

spdIpsoHeadFiltType OBJECT-TYPE

SYNTAX BITS { classificationLevel(0),
protectionAuthority(1) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates which of the IPSO header field a packet is filtered on for this row. If this object is set

to classification(0), the spdIpsoHeadFiltClassification

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

::= { spdIpsoHeaderFilterEntry 2 }

spdIpsoHeadFiltClassification OBJECT-TYPE

SYNTAX INTEGER { topSecret(61), secret(90),
confidential(150), unclassified(171) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO classification header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108."

REFERENCE "RFC 1108"

::= { spdIpsoHeaderFilterEntry 3 }

spdIpsoHeadFiltProtectionAuth OBJECT-TYPE

SYNTAX INTEGER { genser(0), siopesi(1), sci(2),
nsa(3), doe(4) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO protection authority header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108.

Hence the reason the SMIV2 convention of not using 0 in enumerated lists is violated here."

REFERENCE "RFC 1108"

::= { spdIpsoHeaderFilterEntry 4 }

spdIpsoHeadFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdIpsoHeaderFilterEntry 5 }

spdIpsoHeadFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdIpsoHeaderFilterEntry 6 }

spdIpsoHeadFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

However, this object MUST NOT be set to active if the requirements of the spdIpsoHeadFiltType object are not met. Specifically, if the spdIpsoHeadFiltType bit for classification(0) is set, the spdIpsoHeadFiltClassification column MUST have a valid value for the row

status to be set

to active. If the spdIpsoHeadFiltType bit for protectionAuthority(1) is set, the spdIpsoHeadFiltProtectionAuth column MUST have a valid value for the row status to be set to active.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set it to anything other than active while it is

referenced by an active row in another table MUST result in
an inconsistentValue error."

::= { spdIpsoHeaderFilterEntry 7 }

--

-- compound actions table

--

spdCompoundActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Table used to allow multiple actions to be associated
with a rule. It uses the spdSubactionsTable to do this.

The rows from spdSubactionsTable that are partially indexed
by spdCompActName form the

set of compound actions to be

performed. The spdCompActExecutionStrategy column in this
table indicates how those actions are processed."

::= { spdConfigObjects 11 }

spdCompoundActionEntry OBJECT-TYPE

SYNTAX SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the spdCompoundActionTable."

INDEX { spdCompActName }

::= { spdCompoundActionTable 1 }

SpdCompoundActionEntry ::= SEQUENCE {

spdCompActName SnmpAdminString,

spdCompActExecutionStrategy INTEGER,

spdCompActLastChanged TimeStamp,

spdCompActStorageType StorageType,

spdCompActRowStatus RowStatus

}

spdCompActName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is an administratively assigned name of this

compound action."
::= { spdCompoundActionEntry
1 }

spdCompActExecutionStrategy OBJECT-TYPE

SYNTAX INTEGER { doAll(1),
doUntilSuccess(2),
doUntilFailure(3) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates how the sub-actions are executed
based on the success of the actions as they finish
executing.

doAll - run each sub-action regardless of the
exit status of the previous action.
This parent action is always
considered to have acted successfully.

doUntilSuccess - run each sub-action until one succeeds,
at which point stop processing the
sub-actions within this parent
compound action. If one of the
sub-actions did execute successfully,
this parent
action is also considered
to have executed successfully.

doUntilFailure - run each sub-action until one fails,
at which point stop processing the
sub-actions within this compound
action. If any sub-action fails, the
result of this parent action is
considered to have failed."

DEFVAL { doUntilSuccess }
::= { spdCompoundActionEntry 2 }

spdCompActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified
or created either through SNMP SETs or by some other
external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

```
::= { spdCompoundActionEntry
3 }
```

spdCompActStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

```
::= { spdCompoundActionEntry 4 }
```

spdCompActRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once a row in the spdCompoundActionTable has been made active, this object MUST NOT be set to destroy without first destroying all the contained rows listed in the spdSubactionsTable."

```
::= { spdCompoundActionEntry 5 }
```

--

-- actions contained within a compound action

--

spdSubactionsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdSubactionsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of the sub-actions within a given compound action. Compound actions executing these actions MUST execute them in series based on the spdSubActPriority value, with the lowest value executing first."

::= { spdConfigObjects 12 }

spdSubactionsEntry OBJECT-TYPE

SYNTAX SpdSubactionsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row containing a reference to a given compound-action sub-action."

INDEX { spdCompActName, spdSubActPriority }

::= { spdSubactionsTable 1 }

SpdSubactionsEntry ::= SEQUENCE {

spdSubActPriority Integer32,

spdSubActSubActionName

VariablePointer,

spdSubActLastChanged TimeStamp,

spdSubActStorageType StorageType,

spdSubActRowStatus RowStatus

}

spdSubActPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority of a given sub-action within a compound action. The order in which sub-actions MUST be executed are based on the value from this column, with the lowest numeric value executing first (i.e., priority 0 before priority 1, 1 before 2, etc.)."

::= { spdSubactionsEntry 1 }

spdSubActSubActionName OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

spdCompoundActionTable

- Allowing recursion

ipsaSaPreconfiguredActionTable

ipiaIkeActionTable

ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath spdStaticActions.

If this object is set to a pointer to a row in an unsupported (or unknown) table, an inconsistentValue error MUST be returned.

If this object is set to point to a non-existent row in an otherwise supported table, an inconsistentName error MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

::= { spdSubactionsEntry 2 }

spdSubActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external

means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdSubactionsEntry 3 }

spdSubActStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdSubactionsEntry 4 }

spdSubActRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active unless one of the following two conditions are met. An attempt to set it to anything other than active while the following conditions are not met MUST result in an inconsistentValue error. The two conditions are:

- I. No active row in the spdCompoundActionTable exists which has a matching spdCompActName.
- II. Or, at least one other active row in this table has a matching spdCompActName."

::= { spdSubactionsEntry 5 }

--

-- Static Actions

--

-- these are static actions that can be pointed to by the
-- spdRuleDefAction or the spdSubActSubActionName objects to
-- drop, accept, or reject packets.

spdStaticActions OBJECT IDENTIFIER ::= { spdConfigObjects 13 }

spdDropAction OBJECT-TYPE

SYNTAX Integer32 (1)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This scalar indicates that a packet MUST be dropped
and SHOULD
NOT have action/packet logging."
::= { spdStaticActions 1 }

spdDropActionLog OBJECT-TYPE
SYNTAX Integer32 (1)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This scalar indicates that a packet MUST be dropped
and SHOULD have action/packet logging."
::= { spdStaticActions 2 }

spdAcceptAction OBJECT-TYPE
SYNTAX Integer32 (1)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This Scalar indicates that a packet MUST be accepted
(pass-through) and SHOULD NOT have action/packet logging."
::= { spdStaticActions 3 }

spdAcceptActionLog OBJECT-TYPE
SYNTAX Integer32 (1)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This scalar indicates that a packet MUST be accepted
(pass-through) and SHOULD have action/packet logging."
::= { spdStaticActions 4 }

--
--
-- Notification objects information
--
--

spdNotificationVariables OBJECT IDENTIFIER
::=
{ spdNotificationObjects 1 }

spdNotifications OBJECT IDENTIFIER ::=

{ spdNotificationObjects 0 }

spdActionExecuted OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Points to the action instance that was executed that resulted in the notification being sent."

::= { spdNotificationVariables 1 }

spdIPEndpointAddType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the address type for the interface that the notification triggering packet is passing through."

::= { spdNotificationVariables 2 }

spdIPEndpointAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the interface address for the interface that the notification triggering packet is passing through."

The format of
this object is specified by the
spdIPEndpointAddType object."
::= { spdNotificationVariables 3 }

spdIPSourceType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the source address type of the packet that

triggered the notification."

::= { spdNotificationVariables 4 }

spdIPSourceAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the source address of the packet that triggered the notification.

The format of this object is specified by the spdIPSourceType object."

::= { spdNotificationVariables 5 }

spdIPDestinationType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the destination address type of the packet that triggered the notification."

::= { spdNotificationVariables 6 }

spdIPDestinationAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the destination address of the packet that triggered the notification.

The format of this object is specified by the spdIPDestinationType object."

::= { spdNotificationVariables 7 }

spdPacketDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Indicates if the packet that triggered the action in questions was ingress (inbound) or egress (outbound)."

::= { spdNotificationVariables 8 }

spdPacketPart OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..65535))

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"spdPacketPart is the front part of the full IP packet that triggered this notification. The initial size limit is

determined by the smaller of the size, indicated by:

- I. The value of the object with the TC syntax 'SpdIPPacketLogging' that indicated the packet SHOULD be logged and
- II. The size of the triggering packet.

The final limit is determined by the SNMP packet size when sending the notification. The maximum size that can be included will be the smaller of the initial size, given the above, and the length that will fit in a single SNMP notification packet after the rest of the notification's objects and any other necessary packet data (headers encoding, etc.) have been included in the packet."

::= { spdNotificationVariables 9 }

spdActionNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType, spdIPEndpointAddress, spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, spdIPDestinationAddress, spdPacketDirection }

STATUS current

DESCRIPTION

"Notification that an action was executed by a rule.

Only actions with logging enabled will result in this notification getting sent. The object includes the spdActionExecuted object, which will indicate which action was executed within the scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects are included to indicate the packet source and destination of the packet that triggered the action. Finally, the spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects indicate which interface the executed action was associated with, and if the packet was ingress or egress through the endpoint.

A spdActionNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration

controlling their send rate.

Note that compound actions with multiple executed sub-actions may result in multiple notifications being sent from a single rule execution."

::= { spdNotifications 1 }

spdPacketNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType, spdIPEndpointAddress, spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, spdIPDestinationAddress, spdPacketDirection, spdPacketPart }

STATUS current

DESCRIPTION

"Notification that a packet passed through a Security Association (SA). Only SAs created by actions with packet logging enabled will result in this notification getting sent. The objects sent MUST include the spdActionExecuted, which will indicate which action was executed

within the

scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects MUST be included to indicate the packet source and destination of the packet that triggered the action. The spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects are included to indicate which endpoint the packet was associated with. Finally, spdPacketPart is included to enable sending a variable sized part of the front of the packet with the size dependent on the value of the object of TC syntax 'SpdIPPacketLogging', which indicated that logging should be done.

A spdPacketNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate.

An action notification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate."

```

::= { spdNotifications 2 }

--
--
-- Conformance information

--
--

spdCompliances OBJECT IDENTIFIER
    ::= { spdConformanceObjects 1 }
spdGroups OBJECT IDENTIFIER
    ::= { spdConformanceObjects 2 }

--
-- Compliance statements
--
--

spdRuleFilterFullCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for SNMP entities that include
        an IPsec MIB implementation with Endpoint, Rules, and
        filters support.

        When this MIB is implemented with support for read-create,
        then such an implementation can claim full compliance. Such
        devices can then be both monitored and configured with this
        MIB."

MODULE -- This Module
    MANDATORY-GROUPS { spdEndpointGroup,

        spdGroupContentsGroup,
            spdRuleDefinitionGroup,
            spdStaticFilterGroup,
            spdStaticActionGroup ,
            diffServMIBMultiFieldClfrGroup }

    GROUP spdIpsecSystemPolicyNameGroup
    DESCRIPTION
        "This group is mandatory for IPsec Policy
        implementations that support a system policy group
        name."

```

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec

Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP spdIpsoHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound actions."

OBJECT spdEndGroupLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdGroupContComponentType

SYNTAX INTEGER {

rule(2)

}

DESCRIPTION

"Support of the value group(1) is only required for implementations that support Policy Groups within Policy Groups."

OBJECT spdGroupContLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdRuleDefLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT spdCompFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT spdSubFiltLastChanged
MIN-ACCESS not-accessible

DESCRIPTION
 "This object not required for compliance."

OBJECT spdIpOffFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT spdTimeFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT spdIpsoHeadFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT spdCompActLastChanged
MIN-ACCESS
not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT spdSubActLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
 "This object not required for compliance."

OBJECT diffServMultiFieldClfrNextFree
MIN-ACCESS not-accessible
DESCRIPTION

"This object is not required for compliance."

::= { spdCompliances 1 }

spdLoggingCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that support sending notifications when actions are invoked."

MODULE -- This Module

MANDATORY-GROUPS { spdActionLoggingObjectGroup,
spdActionNotificationGroup }

::= { spdCompliances 2 }

--

-- ReadOnly Compliances

--

spdRuleFilterReadOnlyCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that include an IPsec MIB implementation with Endpoint, Rules, and filters support.

If this MIB is implemented without support for read-create (i.e., in read-only), it is not in full compliance, but it can claim read-only compliance. Such a device can then be monitored, but cannot be configured with this MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,
spdGroupContentsGroup,
spdRuleDefinitionGroup,
spdStaticFilterGroup,
spdStaticActionGroup ,
diffServMIBMultiFieldClfrGroup }

GROUP spdIpsecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP 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 }

spdIpsecSystemPolicyNameGroup OBJECT-GROUP

OBJECTS {

 spdIngressPolicyGroupName,

 spdEgressPolicyGroupName

}

STATUS current

DESCRIPTION

 "This group is made up of objects represent the System
 Policy Group Names."

::= { spdGroups 3 }

spdRuleDefinitionGroup OBJECT-GROUP

OBJECTS {

 spdRuleDefDescription, spdRuleDefFilter,

 spdRuleDefFilterNegated, spdRuleDefAction,

 spdRuleDefAdminStatus, spdRuleDefLastChanged,

```

    spdRuleDefStorageType, spdRuleDefRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy Rule
    Definition Table."
::= { spdGroups 4 }

```

```

spdCompoundFilterGroup OBJECT-GROUP
OBJECTS {
    spdCompFiltDescription, spdCompFiltLogicType,
    spdCompFiltLastChanged, spdCompFiltStorageType,
    spdCompFiltRowStatus, spdSubFiltSubfilter,
    spdSubFiltSubfilterIsNegated, spdSubFiltLastChanged,
    spdSubFiltStorageType, spdSubFiltRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Compound Filter Table and Sub-Filter Table Group."
::= { spdGroups 5 }

```

```

spdStaticFilterGroup OBJECT-GROUP
OBJECTS { spdTrueFilter }
STATUS current
DESCRIPTION
    "The static filter group. Currently this is just
a true
    filter."
::= { spdGroups 6 }

```

```

spdIPOffsetFilterGroup OBJECT-GROUP
OBJECTS {
    spdIpOffFiltOffset, spdIpOffFiltType,
    spdIpOffFiltValue, spdIpOffFiltLastChanged,
    spdIpOffFiltStorageType, spdIpOffFiltRowStatus
}

STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy IP
    Offset Filter Table."
::= { spdGroups 7 }

```

```

spdTimeFilterGroup OBJECT-GROUP
OBJECTS {

```

```

    spdTimeFiltPeriod,
    spdTimeFiltMonthOfYearMask, spdTimeFiltDayOfMonthMask,
    spdTimeFiltDayOfWeekMask, spdTimeFiltTimeOfDayMask,

    spdTimeFiltLastChanged,
    spdTimeFiltStorageType, spdTimeFiltRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy Time
    Filter Table."
::= { spdGroups 8 }

spdIpsoHeaderFilterGroup OBJECT-GROUP
OBJECTS {
    spdIpsoHeadFiltType, spdIpsoHeadFiltClassification,
    spdIpsoHeadFiltProtectionAuth,
    spdIpsoHeadFiltLastChanged,
    spdIpsoHeadFiltStorageType, spdIpsoHeadFiltRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy IPSO
    Header Filter Table."
::= { spdGroups 9 }

--
-- action compliance groups
--

spdStaticActionGroup OBJECT-GROUP
OBJECTS {
    spdDropAction, spdAcceptAction,
    spdDropActionLog, spdAcceptActionLog
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Static Actions."
::= { spdGroups 10 }

spdCompoundActionGroup OBJECT-GROUP
OBJECTS {
    spdCompActExecutionStrategy, spdCompActLastChanged,
    spdCompActStorageType,

```

```

    spdCompActRowStatus, spdSubActSubActionName,
    spdSubActLastChanged, spdSubActStorageType,
    spdSubActRowStatus
}
STATUS current
DESCRIPTION
    "The IPsec Policy Compound Action Table and Actions In

```

```

    Compound Action Table
Group."
::= { spdGroups 11 }

```

```

spdActionLoggingObjectGroup OBJECT-GROUP
OBJECTS {
    spdActionExecuted,
    spdIPEndpointAddType, spdIPEndpointAddress,
    spdIPSourceType,     spdIPSourceAddress,
    spdIPDestinationType, spdIPDestinationAddress,
    spdPacketDirection,  spdPacketPart
}
STATUS current
DESCRIPTION
    "This group is made up of all the Notification objects for
    this MIB."
::= { spdGroups 12 }

```

```

spdActionNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    spdActionNotification,
    spdPacketNotification
}
STATUS current
DESCRIPTION
    "This group is made up of all the Notifications for this MIB."
::= { spdGroups 13 }

```

END

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

DIFFSERV-MIB DEFINITIONS ::= BEGIN

IMPORTS

Unsigned32, Counter64, MODULE-IDENTITY, OBJECT-TYPE,
OBJECT-IDENTITY, zeroDotZero, mib-2
FROM SNMPv2-SMI
TEXTUAL-CONVENTION, RowStatus, RowPointer,
StorageType, AutonomousType
FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF
ifIndex, InterfaceIndexOrZero
FROM IF-MIB
InetAddressType, InetAddress, InetAddressPrefixLength,
InetPortNumber
FROM INET-ADDRESS-MIB
BurstSize
FROM INTEGRATED-SERVICES-MIB
Dscp, DscpOrAny
FROM DIFFSERV-DSCP-TC;

diffServMib MODULE-IDENTITY
LAST-UPDATED "200202070000Z"
ORGANIZATION "IETF Differentiated Services WG"
CONTACT-INFO

" Fred Baker
Cisco Systems
1121 Via Del Rey
Santa Barbara, CA 93117, USA
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Jiuling Building

21 North Xisanhuan Ave.
Beijing, 100089, PRC
E-mail: ah_smith@acm.org

Differentiated Services Working Group:
diffserv@ietf.org"

DESCRIPTION

"This MIB defines the objects necessary to manage a device that

uses the Differentiated Services Architecture described in RFC 2475. The Conceptual Model of a Differentiated Services Router provides supporting information on how such a router is modeled."

REVISION "200202070000Z"

DESCRIPTION

"Initial version, published as RFC 3289."

::= { mib-2 97 }

diffServMIBObjects OBJECT IDENTIFIER ::= { diffServMib 1 }

diffServMIBConformance OBJECT IDENTIFIER ::= { diffServMib 2 }

diffServMIBAdmin

OBJECT IDENTIFIER ::= { diffServMib 3 }

IndexInteger ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An integer which may be used as a table index."

SYNTAX Unsigned32 (1..4294967295)

IndexIntegerNextFree ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An integer which may be used as a new Index in a table.

The special value of 0 indicates that no more new entries can be created in the relevant table.

When a MIB is used for configuration, an object with this SYNTAX always contains a legal value (if non-zero) for an index that is not currently used in the relevant table. The Command Generator (Network Management Application) reads this variable and uses the (non-zero) value read when creating a new row with an SNMP SET. When the SET is performed, the Command Responder (agent) must determine whether the value is indeed

still unused; Two Network

Management Applications may attempt to create a row (configuration entry) simultaneously and use the same value. If it is currently unused, the SET succeeds and the Command Responder (agent) changes the value of this object, according to an implementation-specific algorithm. If the value is in use,

however, the SET fails. The Network Management Application must then re-read this variable to obtain a new usable value.

An OBJECT-TYPE definition using this SYNTAX MUST specify the relevant table for which the object is providing this functionality."

SYNTAX Unsigned32 (0..4294967295)

IfDirection ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"IfDirection specifies a direction of data travel on an interface. 'inbound' traffic is operated on during reception from the interface, while 'outbound' traffic is operated on prior to transmission on the interface."

SYNTAX INTEGER {

inbound(1), -- ingress interface

outbound(2) -- egress interface

}

--

-- Data Path

--

diffServDataPath OBJECT IDENTIFIER ::= { diffServMIBObjects 1 }

--

-- Data Path Table

--

-- The Data Path Table enumerates the Differentiated Services

-- Functional Data Paths within this device. Each entry in this table

-- is indexed by ifIndex and ifDirection. Each entry provides the

-- first Differentiated Services Functional Data Path Element to

-- process data flowing along specific data path. This table should

-- have at most two entries for each interface capable of

-- Differentiated Services processing on this device: ingress and

-- egress.

-- Note that Differentiated Services Functional Data Path Elements

-- linked together using their individual next pointers and anchored by

-- an entry of the diffServDataPathTable constitute a functional data

-- path.

--

diffServDataPathTable OBJECT-TYPE

SYNTAX

SEQUENCE OF DiffServDataPathEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The data path table contains RowPointers indicating the start of the functional data path for each interface and traffic direction in this device. These may merge, or be separated into parallel data paths."

::= { diffServDataPath 1 }

diffServDataPathEntry OBJECT-TYPE

SYNTAX DiffServDataPathEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the data path table indicates the start of a single Differentiated Services Functional Data Path in this device.

These are associated with individual interfaces, logical or physical, and therefore are instantiated by ifIndex. Therefore, the interface index must have been assigned, according to the procedures applicable to that, before it can be meaningfully used. Generally, this means that the interface must exist.

When diffServDataPathStorage is of type nonVolatile, however, this may reflect the configuration for an interface whose ifIndex has been assigned but for which the supporting implementation is not currently present."

INDEX { ifIndex, diffServDataPathIfDirection }

::= { diffServDataPathTable 1 }

```
DiffServDataPathEntry ::= SEQUENCE {  
    diffServDataPathIfDirection  IfDirection,  
    diffServDataPathStart        RowPointer,  
    diffServDataPathStorage      StorageType,  
    diffServDataPathStatus       RowStatus  
}
```

diffServDataPathIfDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"IfDirection specifies whether the reception or transmission path for this interface is in view."

::= { diffServDataPathEntry 1 }

diffServDataPathStart OBJECT-TYPE

SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"This selects the first Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry
- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates that no Differentiated Services treatment is performed on traffic of this data path. A pointer with the value zeroDotZero normally terminates a functional data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServDataPathEntry 2 }

diffServDataPathStorage OBJECT-TYPE

SYNTAX StorageType
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServDataPathEntry 3 }

diffServDataPathStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time."

::= { diffServDataPathEntry 4 }

--

-- Classifiers

--

diffServClassifier OBJECT IDENTIFIER ::= { diffServMIBObjects 2 }

--

-- Classifier Table

--

-- The Classifier Table allows multiple classifier elements, of same or
-- different types, to be used together. A classifier must completely
-- classify all packets presented to it. This means that all traffic
-- presented to a classifier must match at least one classifier element
-- within the classifier, with the classifier element parameters

--

specified by a filter.

-- If there is ambiguity between classifier elements of different
-- classifier, classifier linkage order indicates their precedence; the
-- first classifier in the link is applied to the traffic first.

-- Entries in the classifier element table serves as the anchor for
-- each classification pattern, defined in filter table entries. Each
-- classifier element table entry also specifies the subsequent
-- downstream Differentiated Services Functional Data Path Element when
-- the classification pattern is satisfied. Each entry in the
-- classifier element table describes one branch of the fan-out
-- characteristic of a classifier indicated in the Informal
-- Differentiated Services Model section 4.1. A classifier is composed
-- of one or more classifier elements.

diffServClfrNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServClfrId,

or a

zero to indicate that none exist."

::= { diffServClassifier 1 }

diffServClfrTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServClfrEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates all the diffserv classifier functional data path elements of this device. The actual classification definitions are defined in diffServClfrElementTable entries belonging to each classifier.

An entry in this table, pointed to by a RowPointer specifying an instance of diffServClfrStatus, is frequently used as the name for a set of classifier elements, which all use the index diffServClfrId. Per the semantics of the classifier element table, these entries constitute one or more unordered sets of tests which may be simultaneously applied to a message to

classify it.

The primary function of this table is to ensure that the value of diffServClfrId is unique before attempting to use it in creating a diffServClfrElementEntry. Therefore, the diffServClfrEntry must be created on the same SET as the diffServClfrElementEntry, or before the diffServClfrElementEntry is created."

::= { diffServClassifier 2 }

diffServClfrEntry OBJECT-TYPE

SYNTAX DiffServClfrEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the classifier table describes a single classifier.

All classifier elements belonging to the same classifier use the classifier's diffServClfrId as part of their index."

INDEX { diffServClfrId }

::= { diffServClfrTable 1 }

DiffServClfrEntry ::= SEQUENCE {

diffServClfrId IndexInteger,

diffServClfrStorage StorageType,

diffServClfrStatus RowStatus

}

diffServClfrId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the classifier entries. Managers should obtain new values for row creation in this table by reading diffServClfrNextFree."
 ::= { diffServClfrEntry 1 }

diffServClfrStorage OBJECT-TYPE

SYNTAX StorageType
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."
 DEFVAL { nonVolatile }
 ::= { diffServClfrEntry 2 }

diffServClfrStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."
 ::= { diffServClfrEntry 3 }

--

-- Classifier Element Table

--

diffServClfrElementNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This object contains an unused value for diffServClfrElementId, or a zero to indicate that none exist."
 ::= { diffServClassifier 3 }

diffServClfrElementTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServClfrElementEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION

"The classifier element table enumerates the relationship between classification patterns and subsequent downstream Differentiated Services Functional Data Path elements.
diffServClfrElementSpecific points to a filter that specifies the classification parameters. A classifier may use filter tables of different types together.

One example of a filter table defined in this MIB is
diffServMultiFieldClfrTable, for

IP Multi-Field Classifiers

(MFCs). Such an entry might identify anything from a single micro-flow (an identifiable sub-session packet stream directed from one sending transport to the receiving transport or transports), or aggregates of those such as the traffic from a host, traffic for an application, or traffic between two hosts using an application and a given DSCP. The standard Behavior Aggregate used in the Differentiated Services Architecture is encoded as a degenerate case of such an aggregate - the traffic using a particular DSCP value.

Filter tables for other filter types may be defined elsewhere."

::= { diffServClassifier 4 }

diffServClfrElementEntry OBJECT-TYPE

SYNTAX DiffServClfrElementEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the classifier element table describes a single element of the classifier."

INDEX { diffServClfrId,

diffServClfrElementId }

::= { diffServClfrElementTable 1 }

DiffServClfrElementEntry ::= SEQUENCE {
diffServClfrElementId IndexInteger,
diffServClfrElementPrecedence Unsigned32,
diffServClfrElementNext RowPointer,
diffServClfrElementSpecific RowPointer,
diffServClfrElementStorage StorageType,
diffServClfrElementStatus RowStatus
}

diffServClfrElementId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Classifier Element entries.

Managers obtain new values for row creation in this table by reading diffServClfrElementNextFree."

::= { diffServClfrElementEntry 1 }

diffServClfrElementPrecedence OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The relative order in which classifier elements are applied: higher numbers

represent classifier element with higher

precedence. Classifier elements with the same order must be unambiguous i.e. they must define non-overlapping patterns, and are considered to be applied simultaneously to the traffic stream. Classifier elements with different order may overlap in their filters: the classifier element with the highest order that matches is taken.

On a given interface, there must be a complete classifier in place at all times in the ingress direction. This means one or more filters must match any possible pattern. There is no such

requirement in the egress direction."

::= { diffServClfrElementEntry 2 }

diffServClfrElementNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute provides one branch of the fan-out functionality of a classifier described in the Informal Differentiated Services

Model section 4.1.

This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry

diffServMeterEntry

diffServActionEntry

diffServAlgDropEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServClfrElementEntry 3 }

diffServClfrElementSpecific OBJECT-TYPE

SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"A pointer to a valid entry in another table, filter table, that describes the applicable classification parameters, e.g. an entry in diffServMultiFieldClfrTable.

The value zeroDotZero is interpreted to match anything not matched by another classifier element - only one such entry may exist for each classifier.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the element is ignored."

::= { diffServClfrElementEntry 4 }

diffServClfrElementStorage OBJECT-TYPE

SYNTAX StorageType
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL

{ nonVolatile }

::= { diffServClfrElementEntry 5 }

diffServClfrElementStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServClfrElementEntry 6 }

--

-- IP Multi-field Classification Table

--

-- Classification based on six different fields in the IP header.

-- Functional Data Paths may share definitions by using the same entry.

--

diffServMultiFieldClfrNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMultiFieldClfrId, or a zero to indicate that none exist."

::= {

diffServClassifier 5 }

diffServMultiFieldClfrTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMultiFieldClfrEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of IP Multi-field Classifier filter entries that a

system may use to identify IP traffic."

::= { diffServClassifier 6 }

diffServMultiFieldClfrEntry OBJECT-TYPE

SYNTAX DiffServMultiFieldClfrEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An IP Multi-field Classifier entry describes a single filter."

INDEX { diffServMultiFieldClfrId }

```
::= { diffServMultiFieldClfrTable 1 }
```

```
DiffServMultiFieldClfrEntry ::= SEQUENCE {  
    diffServMultiFieldClfrId      IndexInteger,  
    diffServMultiFieldClfrAddrType  InetAddressType,  
    diffServMultiFieldClfrDstAddr   InetAddress,  
    diffServMultiFieldClfrDstPrefixLength InetAddressPrefixLength,  
    diffServMultiFieldClfrSrcAddr   InetAddress,  
    diffServMultiFieldClfrSrcPrefixLength  
InetAddressPrefixLength,  
    diffServMultiFieldClfrDscp      DscpOrAny,  
    diffServMultiFieldClfrFlowId    Unsigned32,  
    diffServMultiFieldClfrProtocol  Unsigned32,  
    diffServMultiFieldClfrDstL4PortMin InetPortNumber,  
    diffServMultiFieldClfrDstL4PortMax InetPortNumber,  
    diffServMultiFieldClfrSrcL4PortMin InetPortNumber,  
    diffServMultiFieldClfrSrcL4PortMax InetPortNumber,  
    diffServMultiFieldClfrStorage   StorageType,  
    diffServMultiFieldClfrStatus    RowStatus  
}
```

diffServMultiFieldClfrId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the MultiField Classifier filter entries. Managers obtain new values for row creation in this table by reading diffServMultiFieldClfrNextFree."

```
::= { diffServMultiFieldClfrEntry 1 }
```

diffServMultiFieldClfrAddrType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of IP address used by this classifier entry. While other types of addresses are defined in the InetAddressType

textual convention, and DNS names, a classifier can only look at packets on the wire. Therefore, this object is limited to IPv4 and IPv6 addresses."

```
::= { diffServMultiFieldClfrEntry 2 }
```

diffServMultiFieldClfrDstAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP address to match against the packet's destination IP address. This may not be a DNS name, but may be an IPv4 or IPv6 prefix. diffServMultiFieldClfrDstPrefixLength indicates the number of bits that are relevant."

::= { diffServMultiFieldClfrEntry 3 }

diffServMultiFieldClfrDstPrefixLength OBJECT-TYPE

SYNTAX InetAddressPrefixLength

UNITS "bits"

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The length of the CIDR Prefix carried in diffServMultiFieldClfrDstAddr. In IPv4 addresses, a length of 0 indicates a match of any address; a length of 32 indicates a match of a single host address, and a length between 0 and 32 indicates the use of a CIDR Prefix. IPv6 is similar, except that prefix lengths range from 0..128."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 4 }

diffServMultiFieldClfrSrcAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP address to match against the packet's source IP address. This may not be a DNS name, but may be an IPv4 or IPv6 prefix. diffServMultiFieldClfrSrcPrefixLength indicates the number of bits that are relevant."

::= { diffServMultiFieldClfrEntry 5 }

diffServMultiFieldClfrSrcPrefixLength OBJECT-TYPE

SYNTAX InetAddressPrefixLength

UNITS

"bits"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The length of the CIDR Prefix carried in diffServMultiFieldClfrSrcAddr. In IPv4 addresses, a length of 0 indicates a match of any address; a length of 32 indicates a match of a single host address, and a length between 0 and 32 indicates the use of a CIDR Prefix. IPv6 is similar, except that prefix lengths range from 0..128."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 6 }

diffServMultiFieldClfrDscp OBJECT-TYPE

SYNTAX DscpOrAny

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value that the DSCP in the packet must have to match this entry. A value of -1 indicates that a specific DSCP value has not been defined and thus all DSCP values are considered a match."

DEFVAL { -1 }

::= { diffServMultiFieldClfrEntry 7 }

diffServMultiFieldClfrFlowId OBJECT-TYPE

SYNTAX Unsigned32 (0..1048575)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The flow identifier in an IPv6 header."

::= { diffServMultiFieldClfrEntry 8 }

diffServMultiFieldClfrProtocol OBJECT-TYPE

SYNTAX Unsigned32 (0..255)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP protocol to match against the IPv4 protocol number or the IPv6 Next- Header number in the packet. A value of 255 means match all. Note the protocol number of 255 is reserved by IANA, and Next-Header number of 0 is used in IPv6."

DEFVAL { 255 }

::= { diffServMultiFieldClfrEntry 9 }

diffServMultiFieldClfrDstL4PortMin OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum value that the layer-4 destination port number in the packet must have in order to match this classifier entry."

DEFVAL

{ 0 }

::= { diffServMultiFieldClfrEntry 10 }

diffServMultiFieldClfrDstL4PortMax OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum value that the layer-4 destination port number in the packet must have in order to match this classifier entry.

This value must be equal to or greater than the value specified for this entry in diffServMultiFieldClfrDstL4PortMin."

DEFVAL { 65535 }

::= { diffServMultiFieldClfrEntry 11 }

diffServMultiFieldClfrSrcL4PortMin OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum value that the layer-4 source port number in the packet must have in order to match this classifier entry."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 12 }

diffServMultiFieldClfrSrcL4PortMax OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum value that the layer-4 source port number in the packet must have in order to match this classifier entry. This value must be equal to or greater than the value specified for this entry in diffServMultiFieldClfrSrcL4PortMin."

DEFVAL { 65535 }

::= { diffServMultiFieldClfrEntry 13 }

diffServMultiFieldClfrStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any

columnar objects in the row."
DEFVAL { nonVolatile }
::= { diffServMultiFieldClfrEntry 14 }

diffServMultiFieldClfrStatus OBJECT-TYPE

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The status of this conceptual row. All writable objects
in this
row may be modified at any time. Setting this variable to
'destroy' when the MIB contains one or more RowPointers pointing
to it results in destruction being delayed until the row is no
longer used."
::= { diffServMultiFieldClfrEntry 15 }

--
-- Meters
--

diffServMeter OBJECT IDENTIFIER ::= { diffServMIBObjects 3 }

--
-- This MIB supports a variety of Meters. It includes a specific
-- definition for Token Bucket Meter, which are but one type of
-- specification. Other metering parameter sets can be defined in other
-- MIBs.

-- Multiple meter elements may be logically cascaded using their
-- diffServMeterSucceedNext and diffServMeterFailNext pointers if
-- required. One example of this might be for an AF PHB implementation
-- that uses multiple level conformance meters.

-- Cascading of individual meter elements in the MIB is intended to be
-- functionally equivalent to multiple level conformance determination
-- of a packet.

The sequential nature of the representation is merely
-- a notational convenience for this MIB.

-- srTCM meters (RFC 2697) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Information Rate and Committed Burst Size
-- token-bucket. The second set specifies the Excess Burst Size
-- token-bucket.

-- trTCM meters (RFC 2698) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Information Rate and Committed Burst Size
-- token-bucket. The second set specifies the Peak Information Rate
-- and Peak Burst Size token-bucket.

-- tswTCM meters (RFC 2859) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Target Rate token-bucket. The second set specifies

-- the Peak Target Rate token-bucket. diffServTBParamInterval in each
-- token bucket reflects the Average Interval.

--

diffServMeterNextFree

OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMeterId, or a
zero to indicate that none exist."

::= { diffServMeter 1 }

diffServMeterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMeterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates specific meters that a system may use to
police a stream of traffic. The traffic stream to be metered is
determined by the Differentiated Services Functional Data Path
Element(s) upstream of the meter i.e. by the object(s) that point
to each entry in this table. This may include all traffic on an
interface.

Specific meter details are to be found in table entry referenced
by diffServMeterSpecific."

::= { diffServMeter 2 }

diffServMeterEntry OBJECT-TYPE

SYNTAX DiffServMeterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the meter table describes a single conformance level of a meter."

```
INDEX { diffServMeterId }  
::= { diffServMeterTable 1 }
```

```
DiffServMeterEntry ::= SEQUENCE {  
    diffServMeterId      IndexInteger,  
    diffServMeterSucceedNext  RowPointer,  
    diffServMeterFailNext   RowPointer,  
    diffServMeterSpecific   RowPointer,  
    diffServMeterStorage    StorageType,  
    diffServMeterStatus     RowStatus  
}
```

diffServMeterId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Meter entries. Managers obtain new values for row creation in this table by reading diffServMeterNextFree."

```
::= { diffServMeterEntry 1 }
```

diffServMeterSucceedNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"If the traffic does conform, this selects the next Differentiated Services Functional Data Path element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry

diffServMeterEntry

diffServActionEntry

diffServAlgDropEntry

diffServQEntry

A value of zeroDotZero in this attribute indicates that no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL    { zeroDotZero }  
::= { diffServMeterEntry  
2 }
```

diffServMeterFailNext OBJECT-TYPE

```
SYNTAX    RowPointer  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION
```

"If the traffic does not conform, this selects the next Differentiated Services Functional Data Path element to handle traffic for this data path. This RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry

- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL    { zeroDotZero }  
::= { diffServMeterEntry 3 }
```

diffServMeterSpecific OBJECT-TYPE

```
SYNTAX    RowPointer  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION
```

"This indicates the behavior of the meter by pointing to an entry containing detailed parameters. Note that entries in that specific table must be managed explicitly.

For example, diffServMeterSpecific may point to an entry in

diffServTBParamTable, which contains an instance of a single set of Token Bucket parameters.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the meter always succeeds."
::= { diffServMeterEntry 4 }

diffServMeterStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The

storage type for this conceptual row. Conceptual rows

having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServMeterEntry 5 }

diffServMeterStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServMeterEntry 6 }

--

-- Token Bucket Parameter Table

--

diffServTBParam OBJECT IDENTIFIER ::= { diffServMIBObjects 4 }

-- Each entry in the Token Bucket Parameter Table parameterize a single
-- token bucket. Multiple token buckets can be used together to
-- parameterize multiple levels of conformance.

-- Note that
an entry in the Token Bucket Parameter Table can be shared
-- by multiple diffServMeterTable entries.

--

diffServTbParamNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServTbParamId, or a zero to indicate that none exist."

::= { diffServTbParam 1 }

diffServTbParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServTbParamEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates a single set of token bucket meter parameters that a system may use to police a stream of traffic. Such meters are modeled here as having a single rate and a single burst size. Multiple entries are used when multiple rates/burst sizes are needed."

::= { diffServTbParam 2 }

diffServTbParamEntry OBJECT-TYPE

SYNTAX DiffServTbParamEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"An entry that describes a single set of token bucket parameters."

INDEX { diffServTbParamId }

::= { diffServTbParamTable 1 }

DiffServTbParamEntry ::= SEQUENCE {

diffServTbParamId IndexInteger,
diffServTbParamType AutonomousType,
diffServTbParamRate Unsigned32,
diffServTbParamBurstSize BurstSize,
diffServTbParamInterval Unsigned32,
diffServTbParamStorage StorageType,
diffServTbParamStatus RowStatus

}

diffServTbParamId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Token Bucket Parameter entries.

Managers obtain new values for row creation in this table by

reading diffServTBParamNextFree."

::= { diffServTBParamEntry 1 }

diffServTBParamType OBJECT-TYPE

SYNTAX AutonomousType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The Metering algorithm associated with the Token Bucket parameters. zeroDotZero indicates this is unknown.

Standard values for generic algorithms:

diffServTBParamSimpleTokenBucket, diffServTBParamAvgRate, diffServTBParamSrTCMBlind, diffServTBParamSrTCMAware, diffServTBParamTrTCMBlind, diffServTBParamTrTCMAware, and diffServTBParamTswTCM are specified in this MIB as OBJECT-IDENTITYs; additional values may be further specified in other MIBs."

::= { diffServTBParamEntry 2 }

diffServTBParamRate OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "kilobits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The token-bucket rate, in kilobits per second (kbps). This attribute is used for:

1. CIR in RFC 2697 for srTCM
2. CIR and PIR in RFC 2698 for trTCM
3. CTR and PTR in RFC 2859 for TSWTCM

4. AverageRate in RFC 3290."

::= { diffServTBParamEntry 3 }

diffServTBParamBurstSize OBJECT-TYPE

SYNTAX BurstSize

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of bytes in a single transmission burst. This attribute is used for:

1. CBS and EBS in RFC 2697 for srTCM
2. CBS and PBS in RFC 2698 for trTCM
3. Burst Size in RFC 3290."

::= { diffServTBParamEntry 4 }

diffServTBParamInterval OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "microseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The time interval used with the token bucket. For:

1. Average Rate Meter, the Informal Differentiated Services Model section 5.2.1, - Delta.
2. Simple Token Bucket Meter, the Informal Differentiated Services Model section 5.1, - time interval t.
3. RFC 2859 TSWTCM, - AVG_INTERVAL.
4. RFC 2697 srTCM, RFC 2698 trTCM, - token bucket update time interval."

::= { diffServTBParamEntry 5 }

diffServTBParamStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServTBParamEntry 6 }

diffServTBParamStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no

```

    longer used."
::= { diffServTBParamEntry 7 }

--
-- OIDs for diffServTBParamType
definitions.
--

diffServTBMeters OBJECT IDENTIFIER ::= { diffServMIBAdmin 1 }

diffServTBParamSimpleTokenBucket OBJECT-IDENTITY
    STATUS    current
    DESCRIPTION
        "Two Parameter Token Bucket Meter as described in the Informal
        Differentiated Services Model section 5.2.3."
    ::= { diffServTBMeters 1 }

diffServTBParamAvgRate OBJECT-IDENTITY
    STATUS    current
    DESCRIPTION
        "Average Rate Meter as described in the Informal Differentiated
        Services Model section 5.2.1."
    ::= { diffServTBMeters 2 }

diffServTBParamSrTCMBlind OBJECT-IDENTITY
    STATUS    current
    DESCRIPTION
        "Single Rate Three Color Marker Metering as defined by RFC 2697,
        in the 'Color Blind' mode as described by the RFC."
    REFERENCE
        "RFC 2697"
    ::= { diffServTBMeters 3 }

diffServTBParamSrTCMAware OBJECT-IDENTITY
    STATUS    current
    DESCRIPTION
        "Single Rate Three Color Marker Metering as defined by RFC 2697,
        in the
        'Color Aware' mode as described by the RFC."
    REFERENCE
        "RFC 2697"

    ::= { diffServTBMeters 4 }

diffServTBParamTrTCMBlind OBJECT-IDENTITY
    STATUS    current

```

DESCRIPTION

"Two Rate Three Color Marker Metering as defined by RFC 2698, in the `Color Blind' mode as described by the RFC."

REFERENCE

"RFC 2698"

::= { diffServTBMeters 5 }

diffServTBParamTrTCMAware OBJECT-IDENTITY

STATUS current

DESCRIPTION

"Two Rate Three Color Marker Metering as defined by RFC 2698, in the `Color Aware' mode as described by the RFC."

REFERENCE

"RFC 2698"

::= { diffServTBMeters 6 }

diffServTBParamTswTCM OBJECT-IDENTITY

STATUS current

DESCRIPTION

"Time Sliding Window Three Color Marker Metering as defined by RFC 2859."

REFERENCE

"RFC 2859"

::= { diffServTBMeters 7 }

--

-- Actions

--

diffServAction OBJECT IDENTIFIER ::= { diffServMIBObjects 5 }

--

-- The Action

Table allows enumeration of the different types of

-- actions to be applied to a traffic flow.

--

diffServActionNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServActionId, or a zero to indicate that none exist."

::= { diffServAction 1 }

diffServActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Action Table enumerates actions that can be performed to a stream of traffic. Multiple actions can be concatenated. For example, traffic exiting from a meter may be counted, marked, and potentially dropped before entering a queue.

Specific actions are indicated by diffServActionSpecific which points to an entry of a specific action type parameterizing the action in detail."

::= { diffServAction

2 }

diffServActionEntry OBJECT-TYPE

SYNTAX DiffServActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Each entry in the action table allows description of one specific action to be applied to traffic."

INDEX { diffServActionId }

::= { diffServActionTable 1 }

DiffServActionEntry ::= SEQUENCE {

diffServActionId IndexInteger,

diffServActionInterface InterfaceIndexOrZero,

diffServActionNext RowPointer,

diffServActionSpecific RowPointer,

diffServActionStorage StorageType,

diffServActionStatus RowStatus

}

diffServActionId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Action entries. Managers obtain new values for row creation in this table by reading diffServActionNextFree."

::= { diffServActionEntry 1 }

diffServActionInterface

OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interface index (value of ifIndex) that this action occurs on. This may be derived from the diffServDataPathStartEntry's index by extension through the various RowPointers. However, as this may be difficult for a network management station, it is placed here as well. If this is indeterminate, the value is zero.

This is of especial relevance when reporting the counters which may apply to traffic crossing an interface:

diffServCountActOctets,
diffServCountActPkts,
diffServAlgDropOctets,
diffServAlgDropPkts,
diffServAlgRandomDropOctets, and
diffServAlgRandomDropPkts.

It is also especially relevant to the queue and scheduler which may be subsequently applied."

::= { diffServActionEntry 2 }

diffServActionNext

OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry
diffServMeterEntry
diffServActionEntry
diffServAlgDropEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL

{ zeroDotZero }

::= { diffServActionEntry 3 }

diffServActionSpecific OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A pointer to an object instance providing additional information for the type of action indicated by this action table entry.

For the standard actions defined by this MIB module, this should point to either a diffServDscpMarkActEntry or a diffServCountActEntry. For other actions, it may point to an object instance defined in some other MIB.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the Meter should be treated as if it were not present. This may lead to incorrect policy behavior."

::= { diffServActionEntry 4 }

diffServActionStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServActionEntry 5 }

diffServActionStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing

```

    to it results in destruction being delayed until the row is no
    longer used."
 ::= { diffServActionEntry 6 }

-- DSCP Mark Action Table
--
-- Rows of this table are pointed to by diffServActionSpecific to
-- provide detailed parameters specific to the DSCP Mark action.
--
-- A single entry in this table can be shared by multiple

-- diffServActionTable entries.
--

diffServDscpMarkActTable
OBJECT-TYPE
SYNTAX      SEQUENCE OF DiffServDscpMarkActEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table enumerates specific DSCPs used for marking or
    remarking the DSCP field of IP packets. The entries of this table
    may be referenced by a diffServActionSpecific attribute."
 ::= { diffServAction 3 }

diffServDscpMarkActEntry OBJECT-TYPE
SYNTAX      DiffServDscpMarkActEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An entry in the DSCP mark action table that describes a single
    DSCP used for marking."
INDEX { diffServDscpMarkActDscp }
 ::= { diffServDscpMarkActTable 1 }

DiffServDscpMarkActEntry ::= SEQUENCE {
    diffServDscpMarkActDscp      Dscp
}

diffServDscpMarkActDscp OBJECT-TYPE
SYNTAX      Dscp
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The DSCP that this Action will store into

```

the DSCP field of the

subject. It is quite possible that the only packets subject to this Action are already marked with this DSCP. Note also that Differentiated Services processing may result in packet being marked on both ingress to a network and on egress from it, and that ingress and egress can occur in the same router."

::= { diffServDscpMarkActEntry 1 }

--

-- Count Action Table

--

-- Because the MIB structure allows multiple cascading
-- diffServActionEntry be used to describe multiple actions for a data
-- path, the counter became an optional action type. In normal
-- implementation, either a data path has counters or it does not, as
-- opposed to being configurable. The management entity may choose to

-- read the counter or not. Hence it is recommended for implementation
-- that have counters to always configure the count action as the first
-- of multiple actions.

--

diffServCountActNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for
diffServCountActId, or a zero to indicate that none exist."

::= { diffServAction 4 }

diffServCountActTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServCountActEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains counters for all the traffic passing through
an action element."

::= { diffServAction 5 }

diffServCountActEntry OBJECT-TYPE

SYNTAX DiffServCountActEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the count action table describes a single set of

```

    traffic counters."
INDEX { diffServCountActId }
::= { diffServCountActTable 1 }

```

```

DiffServCountActEntry ::= SEQUENCE {
    diffServCountActId      IndexInteger,
    diffServCountActOctets   Counter64,
    diffServCountActPkts     Counter64,

    diffServCountActStorage  StorageType,
    diffServCountActStatus   RowStatus
}

```

```

diffServCountActId OBJECT-TYPE
    SYNTAX      IndexInteger
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "An index that enumerates the Count Action entries. Managers
        obtain new values for row creation in this table by reading

```

```

    diffServCountActNextFree."
::= { diffServCountActEntry 1 }

```

```

diffServCountActOctets OBJECT-TYPE
    SYNTAX      Counter64
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "The number of octets at the Action data path element.

```

```

        Discontinuities in the value of this counter can occur at re-
        initialization of the management system and at other times as
        indicated by the value of ifCounterDiscontinuityTime on the
        relevant interface."
::= { diffServCountActEntry 2 }

```

```

diffServCountActPkts OBJECT-TYPE
    SYNTAX      Counter64
    MAX-ACCESS   read-only
    STATUS
        current
    DESCRIPTION
        "The number of packets at the Action data path element.

```

```

        Discontinuities in the value of this counter can occur at re-

```

initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServCountActEntry 3 }

diffServCountActStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServCountActEntry 4 }

diffServCountActStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing

to it results in destruction being delayed until the row is no longer used."

::= { diffServCountActEntry 5 }

--

-- Algorithmic Drop Table

--

diffServAlgDrop OBJECT IDENTIFIER ::= { diffServMIBObjects 6 }

diffServAlgDropNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServAlgDropId, or a zero to indicate that none exist."

::= { diffServAlgDrop 1 }

diffServAlgDropTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServAlgDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The algorithmic drop table contains entries describing an element that drops packets according to some algorithm."

::= { diffServAlgDrop 2 }

diffServAlgDropEntry OBJECT-TYPE

SYNTAX DiffServAlgDropEntry

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"An entry describes a process that drops packets according to some algorithm. Further details of the algorithm type are to be found in diffServAlgDropType and with more detail parameter entry pointed to by diffServAlgDropSpecific when necessary."

INDEX { diffServAlgDropId }

::= { diffServAlgDropTable 1 }

DiffServAlgDropEntry ::= SEQUENCE {

diffServAlgDropId IndexInteger,
diffServAlgDropType INTEGER,
diffServAlgDropNext RowPointer,
diffServAlgDropQMeasure RowPointer,
diffServAlgDropQThreshold Unsigned32,
diffServAlgDropSpecific RowPointer,
diffServAlgDropOctets Counter64,

diffServAlgDropPkts Counter64,
diffServAlgRandomDropOctets Counter64,
diffServAlgRandomDropPkts Counter64,
diffServAlgDropStorage StorageType,
diffServAlgDropStatus

RowStatus

}

diffServAlgDropId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Algorithmic Dropper entries. Managers obtain new values for row creation in this table by reading diffServAlgDropNextFree."

::= { diffServAlgDropEntry 1 }

diffServAlgDropType OBJECT-TYPE

SYNTAX INTEGER {

other(1),
tailDrop(2),
headDrop(3),
randomDrop(4),
alwaysDrop(5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of algorithm used by this dropper. The value other(1) requires further specification in some other MIB module.

In the tailDrop(2) algorithm, diffServAlgDropQThreshold represents the maximum depth of the queue, pointed to by diffServAlgDropQMeasure, beyond which all newly arriving packets

will be dropped.

In the headDrop(3) algorithm, if a packet arrives when the current depth of the queue, pointed to by diffServAlgDropQMeasure, is at diffServAlgDropQThreshold, packets currently at the head of the queue are dropped to make room for the new packet to be enqueued at the tail of the queue.

In the randomDrop(4) algorithm, on packet arrival, an Active Queue Management algorithm is executed which may randomly drop a packet. This algorithm may be proprietary, and it may drop either the arriving packet or another packet in the queue. diffServAlgDropSpecific points to a diffServRandomDropEntry that describes the algorithm. For this algorithm,

diffServAlgDropQThreshold is understood to be the absolute maximum size of the queue and additional parameters are described in diffServRandomDropTable.

The alwaysDrop(5) algorithm is as its name specifies; always drop. In

this case, the other configuration values in this Entry

are not meaningful; There is no useful 'next' processing step, there is no queue, and parameters describing the queue are not useful. Therefore, diffServAlgDropNext, diffServAlgDropMeasure, and diffServAlgDropSpecific are all zeroDotZero."

::= { diffServAlgDropEntry 2 }

diffServAlgDropNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry

diffServMeterEntry

diffServActionEntry

diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

When diffServAlgDropType is alwaysDrop(5), this object is ignored.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 3 }

diffServAlgDropQMeasure OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to an entry in the diffServQTable to indicate the queue that a drop algorithm is to monitor when deciding whether to drop a packet. If the row pointed to does not exist, the algorithmic dropper element is considered inactive.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes

inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 4 }

diffServAlgDropQThreshold OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A threshold on the depth in bytes of the queue being measured at which a trigger is generated to the dropping algorithm, unless diffServAlgDropType is alwaysDrop(5) where this object is ignored.

For the tailDrop(2) or headDrop(3) algorithms, this represents the depth of the queue, pointed to by diffServAlgDropQMeasure, at which the drop action will take place. Other algorithms will need to define their own semantics for this threshold."

::= { diffServAlgDropEntry 5 }

diffServAlgDropSpecific OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to a table entry that provides further detail regarding a drop algorithm.

Entries with diffServAlgDropType equal to other(1) may have this point to a table defined in another MIB module.

Entries with diffServAlgDropType equal to randomDrop(4) must have this point to an entry in diffServRandomDropTable.

For all other algorithms specified in this MIB, this should take the value zeroDotZero.

The diffServAlgDropType is authoritative for the type of the drop algorithm and the specific parameters for the drop algorithm needs to be evaluated based on the diffServAlgDropType.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 6 }

diffServAlgDropOctets OBJECT-TYPE

SYNTAX

Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 7 }

diffServAlgDropPkts OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 8 }

diffServAlgRandomDropOctets OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 9 }

diffServAlgRandomDropPkts OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime

on the

relevant interface."

::= { diffServAlgDropEntry 10 }

diffServAlgDropStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServAlgDropEntry 11 }

diffServAlgDropStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServAlgDropEntry 12 }

--

-- Random Drop Table

--

diffServRandomDropNextFree OBJECT-TYPE

SYNTAX

IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServRandomDropId,
or a zero to indicate that none exist."
::= { diffServAlgDrop 3 }

diffServRandomDropTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServRandomDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The random drop table contains entries describing a process that
drops packets randomly. Entries in this table are pointed to by
diffServAlgDropSpecific."

::= { diffServAlgDrop 4 }

diffServRandomDropEntry OBJECT-TYPE

SYNTAX DiffServRandomDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry describes a process that drops packets according to a
random algorithm."

INDEX { diffServRandomDropId }

::= { diffServRandomDropTable 1 }

DiffServRandomDropEntry ::= SEQUENCE {

diffServRandomDropId

IndexInteger,

diffServRandomDropMinThreshBytes Unsigned32,

diffServRandomDropMinThreshPkts Unsigned32,

diffServRandomDropMaxThreshBytes Unsigned32,

diffServRandomDropMaxThreshPkts Unsigned32,

diffServRandomDropProbMax Unsigned32,

diffServRandomDropWeight Unsigned32,

diffServRandomDropSamplingRate Unsigned32,

diffServRandomDropStorage StorageType,

diffServRandomDropStatus RowStatus

}

diffServRandomDropId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Random Drop entries. Managers
obtain new values for row creation in this table by reading

diffServRandomDropNextFree."
::= { diffServRandomDropEntry 1 }

diffServRandomDropMinThreshBytes OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)
UNITS "bytes"
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The average queue depth in bytes, beyond which traffic has a non-zero probability of being dropped. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMinThreshPkts."

::= { diffServRandomDropEntry 2 }

diffServRandomDropMinThreshPkts OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)
UNITS "packets"
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The average queue depth in packets, beyond which traffic has a non-zero probability of being dropped. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMinThreshBytes."

::= { diffServRandomDropEntry 3 }

diffServRandomDropMaxThreshBytes OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)
UNITS "bytes"
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The average queue depth beyond which traffic has a probability indicated by diffServRandomDropProbMax of being dropped or marked. Note that this differs from the physical queue limit, which is stored in diffServAlgDropQThreshold. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMaxThreshPkts."

::= { diffServRandomDropEntry 4 }

diffServRandomDropMaxThreshPkts OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)
UNITS "packets"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth beyond which traffic has a probability indicated by diffServRandomDropProbMax of being dropped or marked. Note that this differs from the physical queue limit, which is stored in diffServAlgDropQThreshold. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMaxThreshBytes."

::= { diffServRandomDropEntry 5 }

diffServRandomDropProbMax

OBJECT-TYPE

SYNTAX Unsigned32 (0..1000)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The worst case random drop probability, expressed in drops per thousand packets.

For example, if in the worst case every arriving packet may be dropped (100%) for a period, this has the value 1000.

Alternatively, if in the worst case only one percent (1%) of traffic may be dropped, it has the value 10."

::= { diffServRandomDropEntry 6 }

diffServRandomDropWeight OBJECT-TYPE

SYNTAX Unsigned32 (0..65536)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The weighting of past history in affecting the Exponentially Weighted Moving Average function that calculates the current average queue depth. The equation uses diffServRandomDropWeight/65536 as the coefficient for the new sample in the equation, and (65536 - diffServRandomDropWeight)/65536

as the coefficient of the old value.

Implementations may limit the values of diffServRandomDropWeight to a subset of the possible range of values, such as powers of two. Doing this would facilitate implementation of the Exponentially Weighted Moving Average using shift instructions or registers."

::= { diffServRandomDropEntry 7 }

diffServRandomDropSamplingRate OBJECT-TYPE

SYNTAX Unsigned32 (0..1000000)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of times per second the queue is sampled for queue average calculation. A value of zero is used to mean that the queue is sampled approximately each time a packet is enqueued (or dequeued)."

::= { diffServRandomDropEntry 8 }

diffServRandomDropStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServRandomDropEntry 9 }

diffServRandomDropStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServRandomDropEntry 10 }

--

-- Queue Table

--

diffServQueue OBJECT IDENTIFIER ::= { diffServMIBObjects 7 }

--

-- An entry of diffServQTable represents a FIFO queue Differentiated

- Services Functional Data Path element as described in the Informal
- Differentiated Services Model section 7.1.1. Note that the
- specification of scheduling
- parameters for a queue as part of the
- input to a scheduler functional data path element as described in
- the Informal Differentiated Services Model section 7.1.2. This
- allows building of hierarchical queuing/scheduling. A queue
- therefore has these attributes:
-
- 1. Which scheduler will service this queue, diffServQNext.
- 2. How the scheduler will service this queue, with respect
- to all the other queues the same scheduler needs to service,
- diffServQMinRate.
-
- Note that upstream Differentiated Services Functional Data Path
- elements may point to a shared diffServQTable entry as described
- in the Informal Differentiated Services Model section 7.1.1.
-

diffServQNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree
 MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServQId, or a zero to indicate that none exist."

::= { diffServQueue 1 }

diffServQTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServQEntry
 MAX-ACCESS not-accessible
 STATUS current

DESCRIPTION

"The Queue Table enumerates the individual queues. Note that the MIB models queuing systems as composed of individual queues, one per class of traffic, even though they may in fact be structured as classes of traffic scheduled using a common calendar queue, or in other ways."

::= { diffServQueue 2 }

diffServQEntry OBJECT-TYPE

SYNTAX DiffServQEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION

"An entry in the Queue Table describes a single queue or class of traffic."

INDEX { diffServQId }
::= { diffServQTable 1 }

DiffServQEntry ::= SEQUENCE {
diffServQId IndexInteger,
diffServQNext RowPointer,
diffServQMinRate RowPointer,
diffServQMaxRate RowPointer,
diffServQStorage
StorageType,
diffServQStatus RowStatus
}

diffServQId OBJECT-TYPE

SYNTAX IndexInteger
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"An index that enumerates the Queue entries. Managers obtain new values for row creation in this table by reading diffServQNextFree."

::= { diffServQEntry 1 }

diffServQNext OBJECT-TYPE

SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"This selects the next Differentiated Services Scheduler. The RowPointer must point to a diffServSchedulerEntry.

A value of zeroDotZero in this attribute indicates an incomplete diffServQEntry instance. In such a case, the entry has no operational effect, since it has no parameters to give it meaning.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 2 }

diffServQMinRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This RowPointer indicates the diffServMinRateEntry that the scheduler, pointed to by diffServQNext, should use to service this queue.

If the row pointed to is zeroDotZero, the minimum rate and priority is unspecified.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 3 }

diffServQMaxRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This RowPointer indicates the diffServMaxRateEntry that the scheduler, pointed to by diffServQNext, should use to service this queue.

If the row pointed to is zeroDotZero, the maximum rate is the line speed of the interface.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 4 }

diffServQStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

```
DEFVAL { nonVolatile }
::= { diffServQEntry 5 }
```

diffServQStatus OBJECT-TYPE

```
SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
```

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

```
::= { diffServQEntry 6 }
```

```
--
-- Scheduler Table
```

```
diffServScheduler OBJECT IDENTIFIER ::= { diffServMIBObjects 8 }
```

```
--
-- A Scheduler Entry represents a packet scheduler, such as a priority
-- scheduler or a WFQ scheduler. It provides flexibility for multiple
-- scheduling algorithms, each servicing multiple queues, to be used on
-- the same logical/physical interface.
--
-- Note that upstream queues or schedulers specify several of the
-- scheduler's parameters. These must be properly specified if the
-- scheduler is to behave as expected.
--
-- The diffServSchedulerMaxRate attribute specifies the parameters when
-- a scheduler's output is sent to another scheduler. This is used in
-- building
-- hierarchical queues or schedulers.
```

```
--
-- More discussion of the scheduler functional data path element is in
-- the Informal Differentiated Services Model section 7.1.2.
```

diffServSchedulerNextFree OBJECT-TYPE

```
SYNTAX      IndexIntegerNextFree
MAX-ACCESS  read-only
STATUS      current
```

DESCRIPTION

"This object contains an unused value for diffServSchedulerId, or a zero to indicate that none exist."

::= { diffServScheduler 1 }

diffServSchedulerTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServSchedulerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Scheduler Table enumerates packet schedulers. Multiple scheduling algorithms can be used on a given data path, with each algorithm described by one diffServSchedulerEntry."

::= { diffServScheduler 2 }

diffServSchedulerEntry OBJECT-TYPE

SYNTAX DiffServSchedulerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Scheduler Table describing a single instance of a scheduling algorithm."

INDEX { diffServSchedulerId }

::= { diffServSchedulerTable 1 }

DiffServSchedulerEntry ::= SEQUENCE {

diffServSchedulerId	IndexInteger,
diffServSchedulerNext	RowPointer,
diffServSchedulerMethod	AutonomousType,
diffServSchedulerMinRate	RowPointer,
diffServSchedulerMaxRate	RowPointer,
diffServSchedulerStorage	StorageType,
diffServSchedulerStatus	RowStatus

}

diffServSchedulerId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Scheduler entries. Managers obtain new values for row creation in this table by reading diffServSchedulerNextFree."

::= { diffServSchedulerEntry 1 }

diffServSchedulerNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This normally is null (zeroDotZero), or points to a diffServSchedulerEntry or a diffServQEntry.

However, this RowPointer may also point to an instance of:

diffServClfrEntry,
diffServMeterEntry,
diffServActionEntry,
diffServAlgDropEntry.

It would point another diffServSchedulerEntry when implementing multiple scheduler methods for the same data path, such as having one set of queues scheduled by WRR and that group participating in a priority scheduling system in which other queues compete with it in that way. It might also point to a second scheduler in a hierarchical scheduling system.

If the row pointed to is zeroDotZero, no further Differentiated Services treatment is performed on traffic of this data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }

::= { diffServSchedulerEntry 2 }

diffServSchedulerMethod OBJECT-TYPE

SYNTAX AutonomousType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The scheduling algorithm used by this Scheduler. zeroDotZero indicates that this is unknown. Standard values for generic algorithms: diffServSchedulerPriority, diffServSchedulerWRR, and diffServSchedulerWFQ are specified in this MIB; additional values

may be further specified in other MIBs."

::= { diffServSchedulerEntry 3 }

diffServSchedulerMinRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This RowPointer indicates the entry in diffServMinRateTable which indicates the priority or minimum output rate from this scheduler. This attribute is used only when there is more than one level of scheduler.

When it has the value zeroDotZero, it indicates that no minimum rate or priority is imposed.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }

::= { diffServSchedulerEntry 4 }

diffServSchedulerMaxRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This RowPointer indicates the entry in diffServMaxRateTable which indicates the maximum output rate from this scheduler.

When

more than one maximum rate applies (eg, when a multi-rate shaper is in view), it points to the first of those rate entries.

This attribute is used only when there is more than one level of scheduler.

When it has the value zeroDotZero, it indicates that no maximum rate is imposed.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }

::= { diffServSchedulerEntry 5 }

diffServSchedulerStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::=

{ diffServSchedulerEntry 6 }

diffServSchedulerStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServSchedulerEntry 7 }

--

-- OIDs for diffServTBParamType definitions.

--

diffServSchedulers OBJECT IDENTIFIER ::= { diffServMIBAdmin 2 }

diffServSchedulerPriority OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Priority scheduling method. This is defined as an algorithm in which the presence of data in a queue or set of queues absolutely precludes dequeue from another queue or set of queues of lower priority.

Note

that attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 1 }

diffServSchedulerWRR OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Weighted

Round Robin scheduling method, defined as any algorithm in which a set of queues are visited in a fixed order, and varying amounts of traffic are removed from each queue in turn to implement an average output rate by class. Notice attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

```
::= { diffServSchedulers 2 }
```

diffServSchedulerWFQ OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Weighted Fair Queuing scheduling method, defined as any algorithm in which a set of queues are conceptually visited in some order, to implement an average output rate by class. Notice attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

```
::= { diffServSchedulers 3 }
```

```
--
```

```
-- Minimum Rate Parameters Table
```

```
--
```

```
-- The parameters used by a scheduler for its inputs or outputs are
-- maintained separately from the Queue or Scheduler table entries for
-- reusability reasons and so that they may be used by both queues and
-- schedulers. This follows the approach for separation of data path
-- elements from parameterization that is used throughout this MIB.
-- Use of these Minimum Rate Parameter Table entries by Queues and
-- Schedulers allows the modeling of hierarchical scheduling systems.
```

```
--
```

```
-- Specifically, a Scheduler has one or more inputs and one output.
-- Any queue feeding a scheduler, or any scheduler which feeds a second
-- scheduler,
-- might specify a minimum transfer rate by pointing to an
-- Minimum Rate Parameter Table entry.
```

```
--
```

```
-- The diffServMinRatePriority/Abs/Rel attributes are used as
-- parameters to the work-conserving portion of a scheduler:
-- "work-conserving" implies that the scheduler can continue to emit
-- data as long as there is data available at its input(s). This has
-- the effect of guaranteeing a certain priority relative to other
-- scheduler inputs and/or a certain minimum proportion of the
-- available output bandwidth. Properly configured, this means a
-- certain minimum rate, which may be exceeded should traffic be
```

-- available should there be spare bandwidth after all other classes
-- have had opportunities to consume their own minimum rates.
--

diffServMinRateNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMinRateId, or a zero to indicate that none exist."

::= { diffServScheduler 3 }

diffServMinRateTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMinRateEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Minimum Rate Parameters Table enumerates individual sets of scheduling parameter that can be used/reused by Queues and Schedulers."

::= { diffServScheduler 4 }

diffServMinRateEntry OBJECT-TYPE

SYNTAX DiffServMinRateEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Minimum Rate Parameters Table describes a single set of scheduling parameters for use by one or more queues or schedulers."

INDEX { diffServMinRateId }

::= { diffServMinRateTable 1 }

DiffServMinRateEntry ::= SEQUENCE {

diffServMinRateId IndexInteger,

diffServMinRatePriority Unsigned32,

diffServMinRateAbsolute Unsigned32,

diffServMinRateRelative Unsigned32,

diffServMinRateStorage StorageType,

diffServMinRateStatus RowStatus

}

diffServMinRateId OBJECT-TYPE

SYNTAX IndexInteger
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"An index that enumerates the Scheduler Parameter entries.
Managers obtain new values for row creation in this table by
reading diffServMinRateNextFree."

::= { diffServMinRateEntry 1 }

diffServMinRatePriority OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The priority of this input to the associated scheduler, relative

to the scheduler's other inputs. A queue or scheduler with a
larger numeric value will be served before another with a smaller
numeric value."

::= { diffServMinRateEntry 2 }

diffServMinRateAbsolute OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)
UNITS "kilobits per second"
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The minimum absolute rate, in kilobits/sec, that a downstream
scheduler element should allocate to this queue. If the value is
zero, then there is effectively no minimum rate guarantee. If the
value is non-zero, the scheduler will assure the servicing of
this queue to at least this rate.

Note that this attribute value and that of
diffServMinRateRelative are coupled: changes to one will affect
the value of the other. They are linked by the following
equation, in that setting one will change the other:

diffServMinRateRelative =
 (diffServMinRateAbsolute*1000000)/ifSpeed

or, if appropriate:

diffServMinRateRelative = diffServMinRateAbsolute/ifHighSpeed"

REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
 ::= { diffServMinRateEntry 3 }

diffServMinRateRelative OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum rate that a downstream scheduler element should allocate to this queue, relative to the maximum rate of the interface as reported by ifSpeed or ifHighSpeed, in units of 1/1000 of 1. If the value is zero, then there is effectively no minimum rate guarantee. If the value is non-zero, the scheduler will assure the servicing of this queue to at least this rate.

Note that this attribute value and that of diffServMinRateAbsolute are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting one will change the other:

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

or, if appropriate:

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

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:

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

or, if appropriate:

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

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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB

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

RADIUS-ACC-CLIENT-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
Counter32, Integer32, Gauge32,
IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI
SnmAdminString 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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US
Phone: +1 425 936 6605
EMail: bernarda@microsoft.com"

DESCRIPTION

"The MIB module for entities implementing the client side of the Remote

Authentication Dial-In User Service

(RADIUS) accounting protocol. Copyright (C) The Internet Society (2006). This version of this MIB module is part of RFC 4670; see the RFC itself for full legal notices."

REVISION "200608210000Z" -- 21 August 2006

DESCRIPTION

"Revised version as published in RFC 4670.
This version obsoletes that of RFC 2620 by

deprecating the MIB table containing IPv4-only address formats and defining a new table to add support for version-neutral IP address formats. The remaining MIB objects from RFC 2620 are carried forward into this version."

REVISION "199906110000Z" -- 11 Jun 1999

DESCRIPTION "Initial version as published in RFC 2620."

::= { radiusAccounting 2 }

radiusMIB OBJECT-IDENTITY

STATUS current

DESCRIPTION

"The OID assigned to RADIUS MIB work by the IANA."

::= { mib-2 67 }

radiusAccounting OBJECT IDENTIFIER ::= { radiusMIB 2 }

radiusAccClientMIBObjects OBJECT IDENTIFIER

::= { radiusAccClientMIB 1 }

radiusAccClient OBJECT IDENTIFIER

::= { radiusAccClientMIBObjects 1 }

radiusAccClientInvalidServerAddresses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets received from unknown addresses."

::= { radiusAccClient 1 }

radiusAccClientIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The NAS-Identifier of the RADIUS accounting client. This is not necessarily the same as sysName in MIB II."

REFERENCE "RFC 2865 section 5.32"

::= { radiusAccClient 2 }

radiusAccServerTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."

::= { radiusAccClient 3 }

radiusAccServerEntry OBJECT-TYPE

SYNTAX RadiusAccServerEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."

INDEX { radiusAccServerIndex }

::= { radiusAccServerTable 1 }

RadiusAccServerEntry ::= SEQUENCE {

radiusAccServerIndex	Integer32,
radiusAccServerAddress	IpAddress,
radiusAccClientServerPortNumber	Integer32,
radiusAccClientRoundTripTime	TimeTicks,
radiusAccClientRequests	Counter32,
radiusAccClientRetransmissions	Counter32,
radiusAccClientResponses	Counter32,
radiusAccClientMalformedResponses	Counter32,
radiusAccClientBadAuthenticators	Counter32,
radiusAccClientPendingRequests	Gauge32,
radiusAccClientTimeouts	Counter32,
radiusAccClientUnknownTypes	Counter32,
radiusAccClientPacketsDropped	Counter32

}

radiusAccServerIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A number uniquely identifying each RADIUS Accounting server with which this client communicates."

::= { radiusAccServerEntry 1 }

radiusAccServerAddress OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the RADIUS accounting server

referred to in this table entry."

::= { radiusAccServerEntry 2 }

radiusAccClientServerPortNumber OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The UDP port the client is using to send requests to
this server."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 3 }

radiusAccClientRoundTripTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The time interval between the most recent
Accounting-Response and the Accounting-Request that
matched it from this RADIUS accounting server."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 4 }

-- Request/Response statistics

--

-- Requests = Responses + PendingRequests + ClientTimeouts

--

-- Responses - MalformedResponses - BadAuthenticators -

-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientRequests

OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
 "The number of RADIUS Accounting-Request packets
 sent. This does not include retransmissions."
REFERENCE "RFC 2866 section 4.1"
::= { radiusAccServerEntry 5 }

radiusAccClientRetransmissions OBJECT-TYPE

SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
 "The number of RADIUS Accounting-Request packets
 retransmitted to this RADIUS accounting server.
 Retransmissions include retries where the
 Identifier and Acct-Delay have been updated, as
 well as those in which they remain the same."
REFERENCE "RFC 2866 section 2"
::= { radiusAccServerEntry 6 }

radiusAccClientResponses OBJECT-TYPE

SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
 "The number of RADIUS packets received on the
 accounting port from this server."
REFERENCE "RFC 2866 section 4.2"
::= { radiusAccServerEntry 7 }

radiusAccClientMalformedResponses OBJECT-TYPE

SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
 "The number of malformed RADIUS Accounting-Response
 packets received from this server. Malformed packets
 include packets with an invalid length. Bad
 authenticators and unknown types are not included as
 malformed accounting responses."
REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 8 }

radiusAccClientBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Response
packets that contained invalid

authenticators

received from this server."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 9 }

radiusAccClientPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets
sent to this server that have not yet timed out or
received a response. This variable is incremented
when an Accounting-Request is sent and decremented
due to receipt of an Accounting-Response, a timeout,
or a retransmission."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 10 }

radiusAccClientTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of accounting timeouts to this server.
After a timeout, the client may retry to the same

server, send to a different server, or give up.

A retry to the same server is counted as a
retransmit as well as a timeout. A send to a different
server is counted as an Accounting-Request as well as
a timeout."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 11 }

radiusAccClientUnknownTypes OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerEntry 12 }

radiusAccClientPacketsDropped OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets that were received from this server on the accounting port and dropped for some

other reason."

::= { radiusAccServerEntry 13 }

-- New MIB objects added in this revision

radiusAccServerExtTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerExtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."

::= { radiusAccClient 4 }

radiusAccServerExtEntry OBJECT-TYPE

SYNTAX RadiusAccServerExtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."

INDEX { radiusAccServerExtIndex }

::= { radiusAccServerExtTable 1 }

```

RadiusAccServerExtEntry ::= SEQUENCE {
    radiusAccServerExtIndex      Integer32,
    radiusAccServerInetAddressType  InetAddressType,
    radiusAccServerInetAddress
        InetAddress,
    radiusAccClientServerInetPortNumber  InetPortNumber,
    radiusAccClientExtRoundTripTime      TimeTicks,

    radiusAccClientExtRequests      Counter32,
    radiusAccClientExtRetransmissions  Counter32,
    radiusAccClientExtResponses      Counter32,
    radiusAccClientExtMalformedResponses  Counter32,
    radiusAccClientExtBadAuthenticators  Counter32,
    radiusAccClientExtPendingRequests  Gauge32,
    radiusAccClientExtTimeouts      Counter32,
    radiusAccClientExtUnknownTypes      Counter32,
    radiusAccClientExtPacketsDropped  Counter32,
    radiusAccClientCounterDiscontinuity  TimeTicks
}

```

radiusAccServerExtIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A number uniquely identifying each RADIUS
Accounting server

with which this client

communicates."

::= { radiusAccServerExtEntry 1 }

radiusAccServerInetAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of address format used for the
radiusAccServerInetAddress object."

::= { radiusAccServerExtEntry 2 }

radiusAccServerInetAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The IP address of the RADIUS accounting server referred to in this table entry, using the version-neutral IP address format."

::= { radiusAccServerExtEntry 3 }

radiusAccClientServerInetPortNumber OBJECT-TYPE

SYNTAX InetPortNumber (1..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The UDP port the client is using to send requests to this accounting server. The value zero (0) is invalid."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 4 }

radiusAccClientExtRoundTripTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time interval between the most recent Accounting-Response and the Accounting-Request that matched it from this RADIUS accounting server."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 5 }

-- Request/Response statistics

--

-- Requests = Responses + PendingRequests + ClientTimeouts

--

-- Responses - MalformedResponses - BadAuthenticators -

-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientExtRequests OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request

packets

sent. This does not include retransmissions.

This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.1"

::= { radiusAccServerExtEntry 6 }

radiusAccClientExtRetransmissions OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets retransmitted to this RADIUS accounting server.

Retransmissions include retries where the Identifier and Acct-Delay have been updated, as well as those in which they remain the same. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed

entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 7 }

radiusAccClientExtResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerExtEntry 8 }

radiusAccClientExtMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 9 }

radiusAccClientExtBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets that contained invalid authenticators received from this server. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 10 }

radiusAccClientExtPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent to this server that have not yet timed out or received a response. This variable is incremented when an Accounting-Request is sent and decremented due to receipt of an Accounting-Response, a timeout,

or a retransmission. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 11 }

radiusAccClientExtTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accounting timeouts to this server.

After a timeout, the client may retry to the same server, send to a different server, or give up.

A retry to the same server is counted as a retransmit as well as a timeout. A send to a different server is counted as an Accounting-Request as well as a timeout. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 12 }

radiusAccClientExtUnknownTypes OBJECT-TYPE

SYNTAX

Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port.

This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerExtEntry 13 }

radiusAccClientExtPacketsDropped OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of RADIUS packets that were received from
 this server on the accounting port and dropped for some
 other reason. This counter may experience a
 discontinuity when the RADIUS Accounting Client module
 within
 the managed entity is reinitialized, as indicated
 by the current value of
 radiusAccClientCounterDiscontinuity."
 ::= { radiusAccServerExtEntry 14 }

radiusAccClientCounterDiscontinuity OBJECT-TYPE
 SYNTAX TimeTicks
 UNITS "centiseconds"
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of centiseconds since the last
 discontinuity in the RADIUS Accounting Client
 counters. A discontinuity may be the result of a
 reinitialization of the RADIUS Accounting Client
 module within the managed entity."
 ::= { radiusAccServerExtEntry 15 }

-- conformance information

radiusAccClientMIBConformance OBJECT IDENTIFIER
 ::= { radiusAccClientMIB 2 }

radiusAccClientMIBCompliances OBJECT IDENTIFIER
 ::= { radiusAccClientMIBConformance 1 }

radiusAccClientMIBGroups OBJECT IDENTIFIER
 ::= { radiusAccClientMIBConformance
 2 }

-- units of conformance

radiusAccClientMIBCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"The compliance statement for accounting clients implementing the RADIUS Accounting Client MIB. Implementation of this module is for IPv4-only entities, or for backwards compatibility use with entities that support both IPv4 and IPv6."

MODULE -- this module

MANDATORY-GROUPS { radiusAccClientMIBGroup }

::= { radiusAccClientMIBCompliances 1 }

radiusAccClientExtMIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for accounting clients implementing the RADIUS Accounting Client IPv6 Extensions MIB. Implementation of this module is for entities that support IPv6, or support IPv4 and IPv6."

MODULE -- this module

MANDATORY-GROUPS { radiusAccClientExtMIBGroup }

OBJECT

radiusAccServerInetAddressType

SYNTAX InetAddressType { ipv4(1), ipv6(2) }

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT radiusAccServerInetAddress

SYNTAX InetAddress (SIZE (4|16))

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

::= { radiusAccClientMIBCompliances 2 }

-- units of conformance

radiusAccClientMIBGroup OBJECT-GROUP

OBJECTS { radiusAccClientIdentifier,

```

radiusAccClientInvalidServerAddresses,
radiusAccServerAddress,
radiusAccClientServerPortNumber,
radiusAccClientRoundTripTime,
radiusAccClientRequests,
radiusAccClientRetransmissions,
radiusAccClientResponses,
radiusAccClientMalformedResponses,
radiusAccClientBadAuthenticators,

radiusAccClientPendingRequests,
    radiusAccClientTimeouts,
    radiusAccClientUnknownTypes,
    radiusAccClientPacketsDropped
}
STATUS deprecated
DESCRIPTION
    "The basic collection of objects providing management of
    RADIUS Accounting Clients."
::= { radiusAccClientMIBGroups 1 }

```

radiusAccClientExtMIBGroup OBJECT-GROUP

```

OBJECTS { radiusAccClientIdentifier,
    radiusAccClientInvalidServerAddresses,
    radiusAccServerInetAddressType,
    radiusAccServerInetAddress,
    radiusAccClientServerInetPortNumber,
    radiusAccClientExtRoundTripTime,
    radiusAccClientExtRequests,
    radiusAccClientExtRetransmissions,
    radiusAccClientExtResponses,
    radiusAccClientExtMalformedResponses,
    radiusAccClientExtBadAuthenticators,
    radiusAccClientExtPendingRequests,

    radiusAccClientExtTimeouts,
    radiusAccClientExtUnknownTypes,
    radiusAccClientExtPacketsDropped,
    radiusAccClientCounterDiscontinuity

```

```

}
STATUS current
DESCRIPTION
    "The basic collection of objects providing management of
    RADIUS Accounting Clients."

```

```
::= { radiusAccClientMIBGroups 2 }
```

END

Found in path(s):

* /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.

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 mioxPeerEncTable with the same peer index value as this peer entry.

An entry in the underCreation state can be set to valid or invalid. Entries in the underCreation state will stay in that state until 1) the agent times them out, 2) they are set to valid, 3) they are set to invalid. If an agent notices an entry has been in the underCreation state for an abnormally long time, it may decide the management station has failed and invalidate

the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.

Once a management station has completed all fields of an entry, it will set a value of valid. This causes the entry to be activated.

Entries in the valid state may also be set to makeCall or clearCall to make or clear X.25 calls to the peer. After such a set request the entry will still be in the valid state. Setting a value of makeCall causes the agent to initiate an X.25 call request

to the peer specified by the entry. Setting a value of clearCall causes the agent to initiate clearing one X.25 call present to the peer. Each set request will initiate another call or clear request (up to the maximum allowed); this means that management stations that fail to get a response to a set request should query to see if a call was in fact placed or cleared before retrying the request. Entries not in the valid state can not be set to makeCall or clearCall.

The values of makeCall and clearCall provide for circuit control on devices which perform Ethernet Bridging using static circuit assignment without address recognition; other devices which dynamically place calls based on destination addresses may reject such requests.

An agent that (re)creates a new entry because of a set with createRequest, should

also (re)create a mioxPeerEncTable entry with a mioxPeerEncIndex of 1, and a mioxPeerEncType of 204 (hex CC)."
::= { mioxPeerEntry 2 }

mioxPeerMaxCircuits OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The maximum number of X.25 circuits allowed to this peer."

DEFVAL { 1 }

::= { mioxPeerEntry 3 }

mioxPeerIfIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The value of the ifIndex object for the interface to X.25 to use to call the peer."

DEFVAL { 1 }

::= { mioxPeerEntry 4 }

mioxPeerConnectSeconds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of seconds a call to this peer was active. This counter

will be

incremented by one for every second a connection to a peer was open. If two calls are open at the same time, one second of elapsed real time will 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
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 then the deleted
entry, will all have their mioPeerEncIndex
values decremented by one."

::= { mioPeerEncEntry 2 }

-- #####

END

Found in path(s):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-MIB

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

RFC1158-MIB DEFINITIONS ::= BEGIN

IMPORTS

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

DisplayString ::=

OCTET STRING

mib-2 OBJECT IDENTIFIER ::= { mgmt 1 } -- MIB-II
-- (same prefix as MIB-I)

system OBJECT IDENTIFIER ::= { mib-2 1 }
interfaces OBJECT IDENTIFIER ::= { mib-2 2 }
at OBJECT IDENTIFIER ::= { mib-2 3 }
ip OBJECT IDENTIFIER ::= { mib-2 4 }
icmp OBJECT IDENTIFIER ::= { mib-2 5 }
tcp OBJECT IDENTIFIER ::= { mib-2 6 }
udp OBJECT IDENTIFIER ::= { mib-2 7 }
egp OBJECT IDENTIFIER ::= { mib-2 8 }
-- cmot OBJECT IDENTIFIER ::= { mib-2 9 }
transmission OBJECT IDENTIFIER ::= { mib-2 10 }
snmp OBJECT IDENTIFIER ::= { mib-2 11 }

-- object types

-- the System group

sysDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-only

STATUS mandatory

::= { system 1 }

sysObjectID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

::= { system 2 }

sysUpTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

::= { system 3 }

sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

::= { system 4 }

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-only

STATUS mandatory

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

ACCESS read-only

STATUS mandatory

::= { system 7 }

-- the Interfaces group

ifNumber OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS

mandatory

::= { interfaces 1 }

-- the Interfaces table

ifTable OBJECT-TYPE

SYNTAX SEQUENCE OF IfEntry

ACCESS read-only

STATUS mandatory

::= { interfaces 2 }

ifEntry OBJECT-TYPE

SYNTAX IfEntry

ACCESS read-only

STATUS mandatory

::= { ifTable 1 }

IfEntry ::= SEQUENCE {

ifIndex

INTEGER,

ifDescr

DisplayString,

ifType

INTEGER,

ifMtu

INTEGER,

ifSpeed

Gauge,

ifPhysAddress

OCTET STRING,

ifAdminStatus

INTEGER,

ifOperStatus

INTEGER,

ifLastChange

TimeTicks,

ifInOctets

Counter,

ifInUcastPkts

Counter,

ifInNUcastPkts

Counter,

```

ifInDiscards
    Counter,
ifInErrors
    Counter,
ifInUnknownProtos
    Counter,
ifOutOctets
    Counter,
ifOutUcastPkts
    Counter,
ifOutNUcastPkts
    Counter,
ifOutDiscards
    Counter,
ifOutErrors
    Counter,
ifOutQLen
    Gauge,
ifSpecific
    OBJECT IDENTIFIER
}

```

```

ifIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 1 }

```

```

ifDescr OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 2 }

```

```

ifType OBJECT-TYPE
    SYNTAX INTEGER {
        other(1),          -- none of the
                           -- following
        regular1822(2),
        hdh1822(3),
        ddn-x25(4),
        rfc877-x25(5),
        ethernet-csmacd(6),
        iso88023-csmacd(7),
        iso88024-tokenBus(8),
        iso88025-tokenRing(9),
        iso88026-man(10),
        starLan(11),

```

```

    proteon-10Mbit(12),
    proteon-80Mbit(13),
    hyperchannel(14),
    fddi(15),
    lapb(16),
    sdlc(17),
    t1-carrier(18),
    cept(19),      -- european
                  --equivalent of T-1
    basicISDN(20),
    primaryISDN(21),
                  -- proprietary
                  -- serial
    propPointToPointSerial(22),
    terminalServer-asyncPort(23),
    softwareLoopback(24),
    eon(25),       -- CLNP over IP
    ethernet-3Mbit(26),
    nsip(27),      -- XNS over IP
    slip(28)       -- generic SLIP
}
ACCESS read-only
STATUS mandatory
::= { ifEntry 3 }

```

```

ifMtu OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 4 }

```

```

ifSpeed
    OBJECT-TYPE
        SYNTAX Gauge
        ACCESS read-only
        STATUS mandatory
        ::= { ifEntry 5 }

```

```

ifPhysAddress OBJECT-TYPE
    SYNTAX OCTET STRING
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 6 }

```

```

ifAdminStatus OBJECT-TYPE
    SYNTAX INTEGER {
        up(1),  -- ready to pass packets
        down(2),

```

```

        testing(3) -- in some test mode
    }
ACCESS read-write
STATUS mandatory
::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE
    SYNTAX INTEGER {
        up(1),    -- ready to pass packets
        down(2),
        testing(3) -- in some test mode
    }
ACCESS read-only
STATUS mandatory
::= { ifEntry 8 }

ifLastChange OBJECT-TYPE
    SYNTAX TimeTicks
ACCESS read-only
STATUS mandatory
::= { ifEntry 9 }

ifInOctets OBJECT-TYPE
    SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE
    SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE
    SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE
    SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 13 }

ifInErrors OBJECT-TYPE
    SYNTAX Counter

```


ACCESS read-only
STATUS mandatory
::= { ifEntry 14 }

ifInUnknownProtos OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 17 }

ifOutNUcastPkts

OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE

SYNTAX Gauge
ACCESS read-only
STATUS mandatory
::= { ifEntry 21 }

ifSpecific OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

::= { ifEntry 22 }

nullSpecific OBJECT IDENTIFIER ::= { 0 0 }

-- the Address Translation group (deprecated)

atTable OBJECT-TYPE

SYNTAX SEQUENCE OF AtEntry

ACCESS read-write

STATUS deprecated

::= { at 1 }

atEntry OBJECT-TYPE

SYNTAX AtEntry

ACCESS read-write

STATUS deprecated

::= { atTable 1 }

AtEntry ::=

SEQUENCE {

atIfIndex

INTEGER,

atPhysAddress

OCTET STRING,

atNetAddress

NetworkAddress

}

atIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS deprecated

::= { atEntry 1 }

atPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-write

STATUS deprecated

::= { atEntry 2 }

atNetAddress OBJECT-TYPE

SYNTAX NetworkAddress

ACCESS read-write

STATUS deprecated

::= { atEntry 3 }

```

-- the IP group

ipForwarding OBJECT-TYPE
    SYNTAX INTEGER {
        gateway(1), -- entity forwards
                    -- datagrams
        host(2)  -- entity does NOT
                    -- forward datagrams
    }
    ACCESS read-write
    STATUS mandatory
    ::= { ip 1 }

```

```

ipDefaultTTL OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-write
    STATUS mandatory
    ::=
{ ip 2 }

```

```

ipInReceives OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 3 }

```

```

ipInHdrErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 4 }

```

```

ipInAddrErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 5 }

```

```

ipForwDatagrams OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 6 }

```

```

ipInUnknownProtos OBJECT-TYPE
    SYNTAX Counter

```

ACCESS read-only
STATUS mandatory
::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= {
ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 12 }

ipReasmTimeout OBJECT-TYPE

SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
::= { ip 13 }

ipReasmReqds OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 14 }

ipReasmOKs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 15 }

ipReasmFails OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 16 }

ipFragOKs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 17 }

ipFragFails OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 18 }

ipFragCreates
OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 19 }

-- the IP Interface table

ipAddrTable OBJECT-TYPE

SYNTAX SEQUENCE OF IpAddrEntry
ACCESS read-only
STATUS mandatory
::= { ip 20 }

ipAddrEntry OBJECT-TYPE

SYNTAX IpAddrEntry
ACCESS read-only
STATUS mandatory
::= { ipAddrTable 1 }

IpAddrEntry ::= SEQUENCE {

ipAdEntAddr
IpAddress,
ipAdEntIfIndex

```
    INTEGER,  
    ipAdEntNetMask  
    IpAddress,  
    ipAdEntBcastAddr  
    INTEGER,  
    ipAdEntReasmMaxSize  
    INTEGER (0..65535)  
}
```

ipAdEntAddr OBJECT-TYPE

```
    SYNTAX IpAddress  
    ACCESS read-only  
    STATUS mandatory  
    ::= { ipAddrEntry 1 }
```

ipAdEntIfIndex OBJECT-TYPE

```
    SYNTAX INTEGER  
    ACCESS read-only  
    STATUS mandatory  
    ::= { ipAddrEntry 2 }
```

ipAdEntNetMask OBJECT-TYPE

```
    SYNTAX IpAddress  
    ACCESS read-only  
    STATUS mandatory  
    ::= { ipAddrEntry 3 }
```

ipAdEntBcastAddr OBJECT-TYPE

```
    SYNTAX INTEGER  
    ACCESS read-only  
    STATUS mandatory  
    ::= { ipAddrEntry 4 }
```

ipAdEntReasmMaxSize OBJECT-TYPE

```
    SYNTAX INTEGER (0..65535)  
    ACCESS read-only  
    STATUS mandatory  
    ::= { ipAddrEntry 5 }
```

-- the IP Routing table

ipRoutingTable OBJECT-TYPE

```
    SYNTAX SEQUENCE OF IpRouteEntry  
    ACCESS read-write  
    STATUS mandatory  
    ::= { ip 21 }
```

ipRouteEntry OBJECT-TYPE

SYNTAX IpRouteEntry
ACCESS read-write
STATUS mandatory
::= { ipRoutingTable 1 }

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

ipRouteDest OBJECT-TYPE
 SYNTAX IpAddress
 ACCESS read-write
 STATUS mandatory
 ::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE
 SYNTAX INTEGER
 ACCESS read-write
 STATUS mandatory
 ::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE
 SYNTAX INTEGER
 ACCESS read-write
 STATUS mandatory
 ::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE

SYNTAX INTEGER {

 other(1), -- none of the following

 invalid(2), -- an invalidated route

 -- route to directly

 direct(3), -- connected

 -- (sub-)network

 -- route to a non-local

 remote(4) -- host/network/

 -- sub-network

}

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE

SYNTAX INTEGER {

 other(1), -- none of the following

 -- non-protocol


```

-- information

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

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

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

-- the following are
-- gateway routing
-- protocols
egp(5),
ggp(6),
hello(7),
rip(8),
is-is(9),
es-is(10),
ciscoIgrp(11),
bbnSpfIgp(12),
ospf(13),
bgp(14)
}
ACCESS read-only
STATUS mandatory
::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE
SYNTAX IpAddress
ACCESS read-write
STATUS mandatory
::= { ipRouteEntry 11 }

-- the IP Address Translation tables

ipNetToMediaTable
OBJECT-TYPE
SYNTAX SEQUENCE OF IpNetToMediaEntry
ACCESS read-write

```

STATUS mandatory

::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE

SYNTAX IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {

ipNetToMediaIfIndex

INTEGER,

ipNetToMediaPhysAddress

OCTET STRING,

ipNetToMediaNetAddress

IpAddress,

ipNetToMediaType

INTEGER

}

ipNetToMediaIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

invalid(2), -- an invalidated mapping

dynamic(3), -- connected (sub-)network

static(4)

}

ACCESS read-write
STATUS mandatory
::= { ipNetToMediaEntry 4 }

-- the ICMP group

icmpInMsgs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 1 }

icmpInErrors OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 5 }

icmpInSrcQuenchs

OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 6 }

icmpInRedirects OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 7 }

icmpInEchos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 14 }

icmpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 20 }

icmpOutEchos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 24 }

icmpOutAddrMasks OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 26 }

-- the TCP group

tcpRtoAlgorithm OBJECT-TYPE

SYNTAX INTEGER {

 other(1), -- none of the following

 constant(2), -- a constant rto

 rsre(3), -- MIL-STD-1778,

 -- Appendix B

 vanj(4) -- Van Jacobson's

 -- algorithm

}

ACCESS read-only

STATUS mandatory

::= { tcp 1 }

tcpRtoMin OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { tcp 2 }

tcpRtoMax OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { tcp 3 }

tcpMaxConn OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { tcp 7 }

tcpEstabResets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

::= { tcp 9 }

tcpInSegs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { tcp 10 }

tcpOutSegs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

```

::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 12 }

-- the TCP connections table

tcpConnTable OBJECT-TYPE
    SYNTAX SEQUENCE OF TcpConnEntry
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 13 }

tcpConnEntry OBJECT-TYPE
    SYNTAX TcpConnEntry
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnTable 1 }

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

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

```



```

    }
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE
    SYNTAX IpAddress
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE
    SYNTAX IpAddress
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnEntry 5 }

-- additional TCP variables

tcpInErrs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 15 }

-- the UDP group

udpInDatagrams OBJECT-TYPE
    SYNTAX Counter

```

```

    ACCESS read-only
    STATUS mandatory
    ::= { udp 1 }

udpNoPorts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 2 }

udpInErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 3 }

udpOutDatagrams OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 4 }

-- the UDP listener table

udpTable
    OBJECT-TYPE
        SYNTAX SEQUENCE OF UdpEntry
        ACCESS read-only
        STATUS mandatory
        ::= { udp 5 }

udpEntry OBJECT-TYPE
    SYNTAX UdpEntry
    ACCESS read-only
    STATUS mandatory
    ::= { udpTable 1 }

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

udpLocalAddress OBJECT-TYPE
    SYNTAX IpAddress
    ACCESS read-only
    STATUS mandatory

```

```

::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    ::= { udpEntry 2 }

-- the EGP group

egpInMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egp 1 }

egpInErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egp 2 }

egpOutMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egp 3 }

egpOutErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egp 4 }

-- the EGP Neighbor table

egpNeighTable OBJECT-TYPE
    SYNTAX SEQUENCE OF EgpNeighEntry
    ACCESS read-only
    STATUS mandatory
    ::= { egp 5 }

egpNeighEntry OBJECT-TYPE
    SYNTAX EgpNeighEntry
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighTable 1 }

```

```

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

```

egpNeighState OBJECT-TYPE

```

    SYNTAX INTEGER {
        idle(1),
        acquisition(2),
        down(3),
        up(4),
        cease(5)
    }
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 1 }

```

egpNeighAddr OBJECT-TYPE

```

    SYNTAX IpAddress
    ACCESS read-only

```

STATUS mandatory
::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS
mandatory
::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE
SYNTAX Counter

```

ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory

    ::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE
    SYNTAX INTEGER {
        active(1),
        passive(2)
    }
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
    SYNTAX INTEGER {
        start(1),
        stop(2)
    }
    ACCESS read-write
    STATUS mandatory
    ::= { egpNeighEntry 15 }

-- additional EGP variables

egpAs OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { egp 6 }

```

-- the Transmission group (empty at present)

-- the SNMP group

snmpInPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 1 }

snmpOutPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE

SYNTAX Counter

ACCESS

read-only

STATUS mandatory

::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 6 }

snmpInBadTypes OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 7 }

snmpInTooBigs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 18 }

snmpInTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 19 }

snmpOutTooBig OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 22 }

snmpOutReadOnlys OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 23 }

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 29 }

snmpEnableAuthTraps OBJECT-TYPE

SYNTAX INTEGER {

enabled(1),

disabled(2)

}

ACCESS read-write

STATUS mandatory

::= { snmp 30 }

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-MIB

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

DLSW-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
    DisplayString, RowStatus,
    RowPointer, TruthValue,
    TEXTUAL-CONVENTION          FROM SNMPv2-TC
    Counter32, Gauge32, TimeTicks,
    OBJECT-TYPE, MODULE-IDENTITY,
    NOTIFICATION-TYPE, mib-2     FROM SNMPv2-SMI
    MODULE-COMPLIANCE, OBJECT-GROUP,
    NOTIFICATION-GROUP          FROM SNMPv2-CONF
    ifIndex                     FROM IF-MIB
    sdlcLSAddress                FROM SNA-SDLC-MIB;
```

dlsw MODULE-IDENTITY

LAST-UPDATED "9606040900Z"

ORGANIZATION "AIW DLSw MIB RIGLET and IETF DLSw MIB Working Group"

CONTACT-INFO

```
    "David D. Chen
    IBM Corporation
    800 Park, Highway 54
    Research Triangle Park, NC 27709-9990
    Tel:  1 919 254 6182
    E-mail: dchen@vnet.ibm.com"
```

DESCRIPTION

"This MIB module contains objects to manage Data Link
Switches."

::= { mib-2 46 }

dlswMIB OBJECT IDENTIFIER ::= { dlsw 1 }

dlswDomains OBJECT IDENTIFIER ::= { dlsw 2 }

```
-- *****
-- Textual convention definitions
-- *****
```

NBName ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Represents a single qualified NetBIOS name, which can include
'don't care' and 'wildcard' characters to represent a number
of real NetBIOS names. If an individual character position in

the qualified name contains a '?', the corresponding character position in a real NetBIOS name is a 'don't care'. If the qualified name ends in '*', the remainder of a real NetBIOS name is a 'don't care'. '*' is only considered a wildcard if it appears at the end of a name."

SYNTAX OCTET STRING (SIZE (0..16))

MacAddressNC ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1x:"

STATUS current

DESCRIPTION

"Represents an 802 MAC address represented in non-canonical format. That is, the most significant bit will be transmitted first. If this information is not available, the value is a zero length string."

SYNTAX OCTET STRING (SIZE (0 | 6))

TAddress ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Denotes a transport service address.

For dlsWTCpDomain, a TAddress is 4 octets long, containing the IP-address in network-byte order."

SYNTAX OCTET STRING (SIZE (0..255))

EndStationLocation ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the location of an end station related to the managed DLSw node."

SYNTAX INTEGER {

other (1),

internal (2), -- local virtual MAC address

remote (3), -- via

DLSw partner

local (4) -- locally attached

}

DlcType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the type of DLC of an end station, if applicable."

SYNTAX INTEGER {

other (1), -- not assigned yet

na (2), -- not applicable

llc (3), -- 802.2 Logical Link Control

```

        sdlc      (4), -- SDLC
        qllc      (5) -- QLLC
    }

```

LFSsize ::= 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 be 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."
::= { 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 '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 dlswTConnOperEntrys in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 15 }

dlswTConnOperPartnerNBInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept

partial (2), -- partial list is kept

complete (3), -- complete list is kept

notApplicable (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"It is up to this DSLw whether to keep either none, some, or all of the NetBIOS name list that was received in the capabilities exchange message sent by this partner DLSw. This object identifies how much information was kept by this DLSw. These names are stored as userConfigured remote entries in dlswDirNBTable.

A value of (4), notApplicable, should be returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntrys in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 16 }

dlsWTCConnOperPartnerMacInfo 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 dlsWTCConnOperEntry in the 'disconnected' state, this value should remain unchanged."

::= { dlsWTCConnOperEntry 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.
-- .....
```

dlsWTCConnOperDiscTime 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 dlsWTCConnOperState last entered 'disconnected' state."

::= { dlsWTCConnOperEntry 18 }

dlsWTCConnOperDiscReason 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 { 'AA0000000000000000000000000000'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

```
"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."

$$::= \{ \text{dlsWDirStat } 7 \}$$

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."

$$::= \{ \text{dlswDirStat } 8 \}$$

-- Directory Cache

dlsWDirCache

OBJECT IDENTIFIER ::= { dlswDirectory 2 }

.....

-- Directory for MAC Addresses.

- All Possible combinations of values of these objects.

—

```
-- EntryType  LocationType  Location  Status
```

```
-- userConfigured    local    ifEntry or 0.0    reachable, or
```

```
-- notReachable, or
```

-- unknown

```
-- userConfigured remote TConnConfigEntry reachable, or
```

```
-- notReachable, or
```

-- unknown

```
-- partnerCapExMsg remote TConnOperEntry unknown
```

```
-- dynamic      local  ifEntry or 0.0  reachable
-- dynamic      remote TConnOperEntry  reachable
--
-- .....
```

dlswDirMacTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DlswDirMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains locations of MAC addresses.
They could be either verified or not verified,
local or remote, and configured locally or learned
from either Capabilities Exchange messages or
directory searches."

::= { dlswDirCache 1 }

dlswDirMacEntry OBJECT-TYPE

SYNTAX DlswDirMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlswDirMacIndex."

INDEX { dlswDirMacIndex }

::= { dlswDirMacTable 1 }

```
DlswDirMacEntry ::= SEQUENCE {
    dlswDirMacIndex      INTEGER,
    dlswDirMacMac        MacAddressNC,
    dlswDirMacMask       MacAddressNC,
    dlswDirMacEntryType  INTEGER,
    dlswDirMacLocationType INTEGER,
    dlswDirMacLocation   RowPointer,
    dlswDirMacStatus     INTEGER,
    dlswDirMacLFSize
    LFSize,
    dlswDirMacRowStatus   RowStatus
}
```

dlswDirMacIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Uniquely identifies a conceptual row of this table."

::= { dlswDirMacEntry 1 }

dlswDirMacMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address, together with the dlswDirMacMask, specifies a set of MAC addresses that are defined or discovered through an interface or partner DLSw nodes."

::= { dlswDirMacEntry 2 }

dlswDirMacMask OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address mask, together with the dlswDirMacMac, specifies a set of MAC addresses that are defined or discovered through an interface or partner DLSw nodes."

DEFVAL { 'FFFFFFFFFFFF'H }

::= { dlswDirMacEntry 3 }

dlswDirMacEntryType

OBJECT-TYPE

SYNTAX INTEGER {

 other (1),

 userConfiguredPublic (2),

 userConfiguredPrivate (3),

 partnerCapExMsg (4),

 dynamic (5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The cause of the creation of this conceptual row.

It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line or equivalent methods; (2) learned from the partner DLSw Capabilities Exchange messages; and (3) dynamic, e.g., learned from ICanReach messages, or LAN explorer frames. Since only individual MAC addresses can be dynamically learned, dynamic entries will all have a mask of all FFs.

The public versus private distinction for user-configured resources applies only to local resources (UC remote

resources are private), and indicates

whether that resource should be advertised in

capabilities exchange messages sent by this node."

DEFVAL { userConfiguredPublic }

::= { dlsDirMacEntry 4 }

dlsDirMacLocationType 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 }

::= { dlsDirMacEntry 5 }

dlsDirMacLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to either the ifEntry, dlsTConnConfigEntry, dlsTConnOperEntry, 0.0, or something that is implementation specific. It identifies the location of the MAC address (or the collection of MAC addresses.)"

DEFVAL { null }

::= { dlsDirMacEntry 6 }

dlsDirMacStatus 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)."

They could be either verified or not verified,
local or remote, and configured locally or learned
from either Capabilities Exchange messages or
directory searches."

::= { dlswDirCache 2 }

dlswDirNBEntry OBJECT-TYPE

SYNTAX DlswDirNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlswDirNBIndex."

INDEX {

dlswDirNBIndex }

::= { dlswDirNBTable 1 }

DlswDirNBEntry ::= SEQUENCE {

dlswDirNBIndex INTEGER,

dlswDirNBName NBName,

dlswDirNBNameType INTEGER,

dlswDirNBEntryType INTEGER,

dlswDirNBLocationType INTEGER,

dlswDirNBLocation RowPointer,

dlswDirNBStatus INTEGER,

dlswDirNBLFSize LFSize,

dlswDirNBRowStatus RowStatus

}

dlswDirNBIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Uniquely identifies a conceptual row of this table."

::= { dlswDirNBEntry 1 }

dlswDirNBName OBJECT-TYPE

SYNTAX NBName

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The NetBIOS name (including `any char' and `wildcard'
characters) specifies a set of NetBIOS names that are
defined or discovered through an interface or partner
DLSw nodes."

::= { dlswDirNBEntry

2 }

dlswDirNBNameType OBJECT-TYPE

```
SYNTAX  INTEGER {  
    unknown      (1),  
    individual   (2),  
    group        (3)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Whether dlswDirNBName represents an (or a set of) individual or group NetBIOS name(s)."

DEFVAL { unknown }

::= { dlswDirNBEntry 3 }

dlswDirNBEntryType OBJECT-TYPE

```
SYNTAX  INTEGER {  
    other          (1),  
    userConfiguredPublic  (2),  
    userConfiguredPrivate (3),  
    partnerCapExMsg      (4),  
    dynamic          (5)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The cause of the creation of this conceptual row.

It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line, or equivalent methods; (2) learned from the partner DLSw Capabilities

Exchange messages;

and (3) dynamic, e.g., learned from ICanReach messages, or test frames. Since only actual NetBIOS names can be dynamically learned, dynamic entries will not contain any char or wildcard characters.

The public versus private distinction for user-configured resources applies only to local resources (UC remote resources are private), and indicates whether that resource should be advertised in capabilities exchange messages sent by this node."

DEFVAL { userConfiguredPublic }

::= { dlswDirNBEntry 4 }

dlswDirNBLocationType OBJECT-TYPE

```
SYNTAX  INTEGER {
```

```

        other          (1),
        local          (2),
        remote         (3)
    }
    MAX-ACCESS read-create
    STATUS    current
    DESCRIPTION
        "The location of the resource (or a collection of resources
        using any char/wildcard characters) of this conceptual row
        is either
        (1) local - the resource is reachable via an
            interface, or (2) remote - the resource is reachable via a
            a partner DLSw node (or a set of partner DLSw nodes)."
    DEFVAL { local }
    ::= { dlswDirNBEntry 5 }

```

```

dlswDirNBLocation OBJECT-TYPE
    SYNTAX    RowPointer
    MAX-ACCESS read-create
    STATUS    current
    DESCRIPTION
        "Points to either the ifEntry, dlswTConnConfigEntry,
        dlswTConnOperEntry, 0.0, or something that is implementation
        specific. It identifies the location of the NetBIOS name
        or the set of NetBIOS names."
    DEFVAL { null }
    ::= { dlswDirNBEntry 6 }

```

```

dlswDirNBStatus OBJECT-TYPE
    SYNTAX    INTEGER {
        unknown          (1),
        reachable        (2),
        notReachable     (3)
    }
    MAX-ACCESS read-create
    STATUS    current
    DESCRIPTION
        "This object specifies whether DLSw currently believes
        the NetBIOS name to be accessible at the specified location.
        The value `notReachable' allows a configured resource
        definition to be taken out of service when a search to
        that resource fails (avoiding a repeat of the search)."
    DEFVAL { unknown }
    ::= { dlswDirNBEntry 7 }

```

```

dlswDirNBSize OBJECT-TYPE
    SYNTAX    LFSize
    MAX-ACCESS read-create

```

STATUS current
 DESCRIPTION
 "The largest size of the MAC INFO field (LLC header and data)
 that a circuit to the NB name can carry through this path."
 DEFVAL { lfs65535 }
 ::= { dlswDirNBEntry 8 }

dlswDirNBRowStatus OBJECT-TYPE

SYNTAX RowStatus
 MAX-ACCESS read-create
 STATUS current
 DESCRIPTION
 "This object is used by manager to create
 or delete the row entry in the dlswDirNBTable
 following the RowStatus textual convention."
 ::= { dlswDirNBEntry 9 }

 -- Resource Locations

dlswDirLocate

OBJECT IDENTIFIER ::= { dlswDirectory 3 }

--
 -- Locate Entries in the dlswDirMacTable for a given MAC address
 --

dlswDirLocateMacTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswDirLocateMacEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table is used to retrieve all entries in the
 dlswDirMacTable that match a given MAC address,
 in the order of the best matched first, the
 second best matched second, and so on, till
 no more entries match the given MAC address."
 ::= { dlswDirLocate 1 }

dlswDirLocateMacEntry OBJECT-TYPE

SYNTAX DlswDirLocateMacEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Indexed by dlswDirLocateMacMac and dlswDirLocateMacMatch.
 The first object is the MAC address of interest,
 and
 the second object is the order in the list of all

```

    entries that match the MAC address."
INDEX { dlswDirLocateMacMac, dlswDirLocateMacMatch }
::= { dlswDirLocateMacTable 1 }

DlswDirLocateMacEntry ::= SEQUENCE {
    dlswDirLocateMacMac      MacAddressNC,
    dlswDirLocateMacMatch    INTEGER,
    dlswDirLocateMacLocation RowPointer
}

dlswDirLocateMacMac OBJECT-TYPE
    SYNTAX  MacAddressNC
    MAX-ACCESS not-accessible
    STATUS   current
    DESCRIPTION
        "The MAC address to be located."
    ::= { dlswDirLocateMacEntry 1 }

dlswDirLocateMacMatch OBJECT-TYPE
    SYNTAX  INTEGER (1..255)
    MAX-ACCESS not-accessible
    STATUS   current
    DESCRIPTION
        "The order of the entries of dlswDirMacTable
        that match dlswDirLocateMacMac. A value of
        one represents the entry that best matches the
        MAC address. A value of two represents the second
        best matched entry, and so on."
    ::= { dlswDirLocateMacEntry 2 }

dlswDirLocateMacLocation OBJECT-TYPE
    SYNTAX  RowPointer
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "Points to the dlswDirMacEntry."
    ::= { dlswDirLocateMacEntry 3 }

-- .....
-- Locate Entries in the dlswDirNBTable for a given NetBIOS name
-- .....

dlswDirLocateNBTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF DlswDirLocateNBEntry
    MAX-ACCESS not-accessible
    STATUS   current
    DESCRIPTION
        "This table is used to retrieve all entries in the

```

dlswDirNBTable that match a given NetBIOS name,
in the order of the best matched first, the
second best matched second, and so on, till
no more entries match the given NetBIOS name."
::= { dlswDirLocate 2 }

dlswDirLocateNBEntry OBJECT-TYPE

SYNTAX DlswDirLocateNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlswDirLocateNBName and dlswDirLocateNBMatch.

The first object is the NetBIOS name of interest, and

the second object is the order in the list of all

entries that match the NetBIOS name."

INDEX { dlswDirLocateNBName, dlswDirLocateNBMatch }

::= { dlswDirLocateNBTable 1 }

DlswDirLocateNBEntry ::= SEQUENCE {

dlswDirLocateNBName NBName,

dlswDirLocateNBMatch INTEGER,

dlswDirLocateNBLocation RowPointer

}

dlswDirLocateNBName OBJECT-TYPE

SYNTAX NBName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The NetBIOS name to be located (no any char or wildcards)."

::= { dlswDirLocateNBEntry 1 }

dlswDirLocateNBMatch OBJECT-TYPE

SYNTAX INTEGER (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The order of the entries of dlswDirNBTable

that match dlswDirLocateNBName. A value of

one represents the entry that best matches the

NetBIOS name. A value of two represents the second

best matched entry, and so on."

::= { dlswDirLocateNBEntry 2 }

dlswDirLocateNBLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-only

```

STATUS    current
DESCRIPTION
    "Points to the dlswDirNBEntry."
::= { dlswDirLocateNBEntry 3 }

-- *****
-- CIRCUIT
-- A circuit is the end-to-end association of two DLSw entities
-- through one or two DLSw nodes. It is the concatenation of
-- two "data links", optionally with an intervening transport
-- connection. The origin of the circuit is the end station that
-- initiates the circuit. The target of the circuit is the end
-- station that receives the initiation.
-- *****

-----
-- Statistics Related to
-- Circuits
-----

dlswCircuitStat    OBJECT IDENTIFIER ::= { dlswCircuit 1 }

dlswCircuitStatActives OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "The current number of circuits in dlswCircuitTable that are
    not in the disconnected state."
::= { dlswCircuitStat 1 }

dlswCircuitStatCreates OBJECT-TYPE
SYNTAX    Counter32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "The total number of entries ever added to dlswCircuitTable,
    or reactivated upon exiting `disconnected' state."
::= { dlswCircuitStat 2 }

-----
-- Circuit Table
--
-- This table is the DLSw entity's view of circuits. There will be
-- a conceptual row in the table associated with each data link.
--
-- The chart below lists the various possible combinations of

```

```
-- origin and target MAC
locations and the number of entries in
-- this Circuit Table:
--
--      number of   |   Origin End Station Location
--      entries in the |-----
--      Circuit Table | internal  local  remote
--      -----|-----
-- Target | internal |   NA      2      1
-- End    | local   |    2      2      1
-- Station | remote  |    1      1     NA
-- Location |       |
--
--      NA: Not applicable
--
-- Note:
-- (a) IfIndex and RouteInfo are applied only if location is local.
-- (b) TDomain and TAddr are applied only if location is remote.
--
-- Most of statistics related to circuits can be collected
-- from LLC-2 Link Station Table.
```

dlswCircuitTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswCircuitEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"This table is the circuit representation in the DLSw entity. Virtual data links are used to represent any internal end stations. There is a conceptual row associated with each data link. Thus, for circuits without an intervening transport connection, there are two conceptual rows for each circuit.

The table consists of the circuits being established, established, and as an implementation option, circuits that have been disconnected. For circuits carried over transport connections, an entry is created after the CUR_cs was sent or received. For circuits between two locally attached devices, or internal virtual MAC addresses, an entry is created when the equivalent of CUR_cs sent/received status is reached.

End station 1 (S1) and End station 2 (S2) are used to represent the two end stations of the circuit.
S1 is always

an end station which is locally attached.

S2 may be locally attached or remote. If it is locally attached, the circuit will be represented by two rows indexed by (A, B) and (B, A) where A & B are the relevant MACs/SAPs.

The table may be used to store the causes of disconnection of circuits. It is recommended that the oldest disconnected circuit entry be removed from this table when the memory space of disconnected circuits is needed."

::= { dlsuCircuit 2 }

dlsuCircuitEntry OBJECT-TYPE

SYNTAX DlsuCircuitEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { dlsuCircuitS1Mac,
dlsuCircuitS1Sap,
dlsuCircuitS2Mac,
dlsuCircuitS2Sap }

::= { dlsuCircuitTable 1 }

DlsuCircuitEntry ::= SEQUENCE {

dlsuCircuitS1Mac MacAddressNC,

dlsuCircuitS1Sap OCTET STRING,

dlsuCircuitS1IfIndex INTEGER,

dlsuCircuitS1DlcType DlcType,

dlsuCircuitS1RouteInfo OCTET STRING,

dlsuCircuitS1CircuitId OCTET STRING,

dlsuCircuitS1Dlc RowPointer,

dlsuCircuitS2Mac MacAddressNC,

dlsuCircuitS2Sap OCTET STRING,

dlsuCircuitS2Location EndStationLocation,

dlsuCircuitS2TDomain OBJECT IDENTIFIER,

dlsuCircuitS2TAddress TAddress,

dlsuCircuitS2CircuitId OCTET STRING,

dlsuCircuitOrigin INTEGER,

dlsuCircuitEntryTime TimeTicks,

dlsuCircuitStateTime TimeTicks,

dlsuCircuitState INTEGER,

dlsuCircuitPriority INTEGER,

dlsuCircuitFCSendGrantedUnits INTEGER,

```

    dlswCircuitFCSendCurrentWndw  INTEGER,
    dlswCircuitFCRecvGrantedUnits  INTEGER,
    dlswCircuitFCRecvCurrentWndw  INTEGER,
    dlswCircuitFCLargestRecvGranted Gauge32,
    dlswCircuitFCLargestSendGranted
Gauge32,
    dlswCircuitFCHalveWndwSents    Counter32,
    dlswCircuitFCResetOpSents      Counter32,
    dlswCircuitFCHalveWndwRcvds    Counter32,
    dlswCircuitFCResetOpRcvds      Counter32,
    dlswCircuitDiscReasonLocal     INTEGER,
    dlswCircuitDiscReasonRemote    INTEGER,
    dlswCircuitDiscReasonRemoteData OCTET STRING
}

-- .....
-- Information related to the End Station 1 (S1).
-- .....
dlswCircuitS1Mac OBJECT-TYPE
    SYNTAX      MacAddressNC
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The MAC Address of End Station 1 (S1) used for this circuit."
    ::= { dlswCircuitEntry 1 }

dlswCircuitS1Sap OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(1))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The SAP at End Station 1 (S1) used for this circuit."
    ::= { dlswCircuitEntry 2 }

dlswCircuitS1IfIndex
    OBJECT-TYPE
    SYNTAX      INTEGER (0..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The ifEntry index of the local interface through which S1
        can be reached."
    ::= { dlswCircuitEntry 3 }

dlswCircuitS1DlcType OBJECT-TYPE
    SYNTAX      DlcType
    MAX-ACCESS  read-only
    STATUS      current

```

DESCRIPTION

"The DLC protocol in use between the DLSw node and S1."

::= { dlswCircuitEntry 4 }

dlswCircuitS1RouteInfo OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..30))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If source-route bridging is in use between the DLSw node and S1, this is the routing information field describing the path between the two devices.

Otherwise the value will be an OCTET STRING of zero length."

::= { dlswCircuitEntry 5 }

dlswCircuitS1CircuitId OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 8))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Circuit ID assigned by this DLSw node to this circuit.

The first four octets are the DLC port Id, and the second four octets are the Data Link Correlator.

If the DLSw SSP was not used to establish this circuit, the value will be a string of zero length."

::= { dlswCircuitEntry 6 }

dlswCircuitS1Dlc OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Points to a conceptual row of the underlying DLC MIB, which could either be the standard MIBs (e.g., the SDLC), or an enterprise-specific DLC MIB."

::= { dlswCircuitEntry 7 }

--
-- Information related to the End Station 2 (S2).
--

dlswCircuitS2Mac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The MAC Address of End Station 2 (S2) used for this circuit."

::= { dlsuCircuitEntry 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.

--

dlswCircuitFCSendGrantedUnits OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of paced SSP messages that this DLSw is currently authorized to send on this circuit before it must stop and wait for an additional flow control indication from the partner DLSw.

The value zero should be returned if this circuit is not running

the DLSw pacing protocol."

::= { dlswCircuitEntry 19 }

dlswCircuitFCSendCurrentWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current window size that this DLSw is using in its role as a data sender. This is the value by which this DLSw would increase the number of messages it is authorized to send, if it were to receive a flow control indication with the bits specifying `repeat window'.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 20 }

dlswCircuitFCRecvGrantedUnits OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current number of paced SSP messages that this DLSw has authorized the partner DLSw to send on this circuit before

the partner DLSw must stop and wait for an additional flow

control indication from this DLSw.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 21 }

dlswCircuitFCRecvCurrentWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current window size that this DLSw is using in its role as a data receiver. This is the number of additional paced SSP messages that this DLSw would be authorizing its DLSw partner to send, if this DLSw were to send a flow control indication with the bits specifying `repeat window'.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 22 }

dlswCircuitFCLargestRecvGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest receive window size granted by this DLSw during

the current activation of this circuit. This is not the largest number of messages granted at any time, but the largest window size as represented by FCIND operator bits.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 23 }

dlswCircuitFCLargestSendGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest send (with respect to this DLSw) window size granted by the partner DLSw during the current activation of this circuit.

The value zero should be returned if this circuit is not

running the DLSw pacing protocol."
::= { dlswCircuitEntry 24 }

dlswCircuitFCHalveWndwSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Halve Window operations this DLSw has sent on
this circuit, in its role as a data
receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 25 }

dlswCircuitFCResetOpSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has sent on
this circuit, in its role as a data receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 26 }

dlswCircuitFCHalveWndwRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Halve Window operations this DLSw has received on
this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 27 }

dlswCircuitFCResetOpRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has received on
this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not

running the DLSw pacing protocol."
::= { dlswCircuitEntry 28 }

--
-- Information about the circuit disconnection
--

dlswCircuitDiscReasonLocal OBJECT-TYPE

SYNTAX INTEGER {
 endStationDiscRcvd (1),
 endStationDlcError (2),
 protocolError (3),
 operatorCommand (4),
 haltDIRcvd (5),
 haltDI_NoAckRcvd (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 { dlsWConnOperTDomain, dlsWConnOperRemoteTAddr
}

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 { dlsuCircuitS1Mac, dlsuCircuitS1Sap,
          dlsuCircuitS2Mac, dlsuCircuitS2Sap
}
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 { dlsuCircuitS1Mac, dlsuCircuitS1Sap,
          dlsuCircuitS2Mac, dlsuCircuitS2Sap
}
STATUS   current
DESCRIPTION
  "This trap is sent each time a circuit enters `disconnected'
  state. The emission of this trap is controlled by
  dlswTrapCntlCircuit."
::= { dlswTraps 6 }

-- *****
-- CONFORMANCE INFORMATION
-- *****

dlswConformance      OBJECT IDENTIFIER ::= { dlsw 3 }

dlswCompliances
  OBJECT IDENTIFIER ::= { dlswConformance 1 }
dlswGroups           OBJECT IDENTIFIER ::= { dlswConformance 2 }

-----
-- COMPLIANCE STATEMENTS
-----

-- .....
-- Core compliance for all DLSw entities
-- .....

dlswCoreCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION
  "The core compliance statement for all DLSw nodes."
MODULE
  MANDATORY-GROUPS {
    dlswNodeGroup,
    dlswTConnStatGroup,
    dlswTConnConfigGroup,
    dlswTConnOperGroup,

```

```
    dlswInterfaceGroup,  
    dlswCircuitGroup,  
    dlswCircuitStatGroup,  
    dlswNotificationGroup }
```

GROUP dlswNodeNBGroup

DESCRIPTION

"The DLSw NetBIOS Node group is mandatory only for those DLSw entities that implement NetBIOS."

GROUP dlswTConnNBGroup

DESCRIPTION

"The DLSw NetBIOS Transport Connection group is mandatory only for those DLSw entities that implement NetBIOS."

OBJECT dlswNodeStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswNodeVirtualSegmentLFSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswNodeResourceNBExclusivity

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswNodeResourceMacExclusivity

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConnPartnerReject

MIN-ACCESS

read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConnProtViolation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

::= { dlswCompliances 1 }

--
-- Compliance for all DLSw entities that provide TCP transport.
--
dlswTConnTcpCompliance MODULE-COMPLIANCE

STATUS current
DESCRIPTION
"Compliance for DLSw nodes that use TCP as a
transport connection protocol."

```

MODULE
  MANDATORY-GROUPS {
    dlswTConnTcpConfigGroup,
    dlswTConnTcpOperGroup }

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

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

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

::= { dlswCompliances 2 }

-- .....
-- Compliance for all DLSw Entities that implement a directory
-- .....
dlswDirCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that provide a directory
    function."
  MODULE
    MANDATORY-GROUPS {
      dlswDirGroup }

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

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

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

```

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

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

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

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

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

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

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

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

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

OBJECT dlswDirNBLocationType
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBSize

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,
dlswCircuitFCHalveWdwSents,
dlswCircuitFCResetOpSents,
dlswCircuitFCHalveWdwRcvds,
dlswCircuitFCResetOpRcvds,
dlswCircuitDiscReasonLocal,
dlswCircuitDiscReasonRemote,
dlswCircuitDiscReasonRemoteData
}

STATUS current

DESCRIPTION

"Conformance group for DLSw circuits."

::= { dlswGroups 15 }

--

dlswSdlcGroup OBJECT-GROUP

OBJECTS {

dlswSdlcLsEntries,
dlswSdlcLsLocalMac,
dlswSdlcLsLocalSap,
dlswSdlcLsLocalIdBlock,
dlswSdlcLsLocalIdNum,

```

        dlswSdlcLsRemoteMac,
        dlswSdlcLsRemoteSap,
        dlswSdlcLsRowStatus
    }
STATUS current
DESCRIPTION
    "Conformance group for DLSw SDLC support."
::= { dlswGroups 16 }

-- .....
dlswNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    dlswTrapTConnPartnerReject,
    dlswTrapTConnProtViolation,

    dlswTrapTConnUp,
    dlswTrapTConnDown,
    dlswTrapCircuitUp,
    dlswTrapCircuitDown
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw notifications."
::= { dlswGroups 17 }

END

```

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB

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

SIP-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

MODULE-IDENTITY,
OBJECT-TYPE,
NOTIFICATION-TYPE,
Counter32,
Gauge32,
TimeTicks,
Unsigned32,

```

mib-2

```

    FROM SNMPv2-SMI          -- RFC 2578

```

```

RowStatus,
TimeStamp,

```

TruthValue

FROM SNMPv2-TC -- RFC 2579

MODULE-COMPLIANCE,

OBJECT-GROUP,

NOTIFICATION-GROUP

FROM SNMPv2-CONF -- RFC 2580

SnmpAdminString

FROM SNMP-FRAMEWORK-MIB -- RFC 3411

SipTCTransportProtocol,

SipTCMethodName,

SipTCEntityRole,

SipTCOptionTagHeaders

FROM SIP-TC-MIB -- RFC 4780

applIndex

FROM NETWORK-SERVICES-MIB -- RFC 2788

InetPortNumber

FROM INET-ADDRESS-MIB; -- RFC 4001

sipCommonMIB MODULE-IDENTITY

LAST-UPDATED "200704200000Z"

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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         SipTCEntityRole
}
```

sipCommonCfgProtocolVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object will reflect the version of SIP supported by this SIP entity. It will follow the same format as SIP version information contained in the SIP messages generated by this SIP entity. For example, entities supporting SIP version 2 will return 'SIP/2.0' as dictated by the standard."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonCfgEntry
1 }

sipCommonCfgServiceOperStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

up(2),

down(3),

congested(4),

restarting(5),

quiescing(6),

testing(7)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the current operational state of the SIP application.

unknown : The operational status cannot be determined for some reason.

up : The application is operating normally and is processing (receiving and possibly issuing) SIP requests and responses.

down : The application is currently unable to process SIP messages.

congested : The application is operational but no additional

inbound transactions can be accommodated at the moment.

restarting : The application is currently unavailable, but it is in the process of restarting and will presumably, soon be able to process SIP messages.

quiescing : The application is currently operational but has been administratively put into quiescence mode. Additional inbound transactions MAY be rejected.

testing : The application is currently in test mode and MAY not be able to process SIP messages.

The operational status values defined for this object are not based on any specific information contained in the SIP standard."

::= { sipCommonCfgEntry 2 }

sipCommonCfgServiceStartTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time the SIP entity was last started. If

started prior to the last re-initialization of the

local network management subsystem, then this object contains a zero value."

::= { sipCommonCfgEntry 3 }

sipCommonCfgServiceLastChange OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time the SIP entity entered its current operational state. If the current state was entered prior to the last re-initialization of the local network management subsystem, then this object contains a zero value."

::= { sipCommonCfgEntry 4 }

sipCommonCfgOrganization OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the organization name that the SIP entity inserts into Organization headers of SIP messages processed by this system. If the string is empty, no Organization header is to be generated."

REFERENCE

"RFC 3261, Section 20.25"

::= { sipCommonCfgEntry 5 }

sipCommonCfgMaxTransactions OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the maximum number of simultaneous transactions per second that the SIP entity can manage. In general, the value of this object SHOULD reflect a level of transaction processing per second that is considered high enough to impact the system's CPU and/or memory resources to the point of deteriorating SIP call processing but not high enough to cause catastrophic system failure."

::= { sipCommonCfgEntry 6 }

sipCommonCfgServiceNotifEnable OBJECT-TYPE

SYNTAX BITS {

 sipCommonServiceColdStart(0),

 sipCommonServiceWarmStart(1),

 sipCommonServiceStatusChanged(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies which SIP service related notifications are enabled. Each bit represents a specific notification. If a bit has a value 1, the associated notification is enabled and will be generated by the SIP entity at the appropriate time.

Support for these notifications is OPTIONAL: either none or all notification values are supported. If an implementation does

not support this object, it should return a 'noSuchObject' exception to an SNMP GET operation. If notifications are supported, this object's default value SHOULD reflect sipCommonServiceColdStart and sipCommonServiceWarmStart enabled and sipCommonServiceStatusChanged disabled.

This object value SHOULD persist across reboots."

```
DEFVAL { { sipCommonServiceColdStart,
           sipCommonServiceWarmStart } }
::= { sipCommonCfgEntry 7 }
```

sipCommonCfgEntityType OBJECT-TYPE

```
SYNTAX    SipTCEntityRole
MAX-ACCESS read-only
```

STATUS current

DESCRIPTION

"This object identifies the list of SIP entities to which this row is related. It is defined as a bit map. Each bit represents a type of SIP entity. If a bit has value 1, the SIP entity represented by this row plays the role of this entity type. If a bit has value 0, the SIP entity represented by this row does not act as this entity type. Combinations of bits can be set when the SIP entity plays multiple SIP roles."

```
::= { sipCommonCfgEntry 8 }
```

--

-- Support for multiple ports

--

sipCommonPortTable OBJECT-TYPE

```
SYNTAX    SEQUENCE OF SipCommonPortEntry
```

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

STATUS current

DESCRIPTION

"This table contains the list of ports that each SIP entity in this system is allowed to use. These ports can be advertised using the Contact header in a REGISTER request or response."

```
::= {
```

```
sipCommonCfgBase 2 }
```

sipCommonPortEntry OBJECT-TYPE

```
SYNTAX    SipCommonPortEntry
```

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

STATUS current

DESCRIPTION

"Specification of a particular port.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonPort }

::= { sipCommonPortTable 1 }

SipCommonPortEntry ::= SEQUENCE {
 sipCommonPort InetPortNumber,
 sipCommonPortTransportRcv SipTCTransportProtocol
}

sipCommonPort OBJECT-TYPE

SYNTAX InetPortNumber (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object reflects a particular port that can be used by the SIP application."

::= { sipCommonPortEntry 1 }

sipCommonPortTransportRcv

OBJECT-TYPE

SYNTAX SipTCTransportProtocol

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object will specify the transport protocol the SIP entity will use to receive SIP messages.

This object is a bit map. Each bit represents a transport protocol. If a bit has value 1, then that transport protocol is currently being used. If a bit has value 0, then that transport protocol is currently not being used."

::= { sipCommonPortEntry 2 }

--

-- Support for SIP option tags (SIP extensions).

-- SIP extensions MAY be supported or required by SIP entities.

--

sipCommonOptionTagTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonOptionTagEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of the SIP option tags (SIP extensions) that are either required, supported, or unsupported by the SIP entity. These option tags are used in the Require, Proxy-Require, Supported, and Unsupported header fields.

Example: If a user agent client supports, and requires the server to support, reliability of provisional responses (RFC 3262), this table contains a row with the option tag string '100rel' in sipCommonOptionTag and the OCTET STRING value of '1010 0000' or '0xA0' in sipCommonOptionTagHeaderField.

If a server does not support the required feature (indicated in a Require header to a UAS, or in a Proxy-Require to a Proxy Server), the server returns a 420 Bad Extension listing the feature in an Unsupported header.

Normally, the list of such features supported by an entity is static (i.e., will not change over time)."

REFERENCE

"RFC 3261, Sections 19.2, 20.32, 20.29, 20.37, and 20.40"

::= { sipCommonCfgBase 3 }

sipCommonOptionTagEntry OBJECT-TYPE

SYNTAX SipCommonOptionTagEntry

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"A particular SIP option tag (extension) supported or unsupported by the SIP entity, and which may be supported or required by a peer.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonOptionTagIndex }

::= { sipCommonOptionTagTable 1 }

SipCommonOptionTagEntry ::= SEQUENCE {

sipCommonOptionTagIndex Unsigned32,


```

        sipCommonOptionTag      SnmpAdminString,
        sipCommonOptionTagHeaderField SipTCOptionTagHeaders
    }

```

sipCommonOptionTagIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table."

::= { sipCommonOptionTagEntry 1 }

sipCommonOptionTag OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the SIP option tag. The option tag names are registered with IANA and available at <http://www.iana.org>."

REFERENCE "RFC 3261, Section 27.1"

::= { sipCommonOptionTagEntry 2 }

sipCommonOptionTagHeaderField OBJECT-TYPE

SYNTAX SipTCOptionTagHeaders

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the SIP option tag is supported (Supported header), unsupported (Unsupported header), or required (Require or Proxy-Require header) by the SIP entity. A SIP option tag may be both supported and required."

::= { sipCommonOptionTagEntry 3 }

--

-- Supported SIP Methods

--

sipCommonMethodSupportedTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonMethodSupportedEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of methods supported by each SIP entity in this system (see the standard set of SIP methods in Section 7.1 of RFC 3261). Any additional methods that may be

incorporated into the SIP protocol can be represented by this table without any requirement to update this MIB module.

The table is informational in nature and conveys capabilities of the managed system to the SNMP Manager.

From a protocol point of view, the list of methods advertised by the SIP entity in the Allow header (Section 20.5 of RFC 3261) MUST be consistent with the methods reflected in this table."

::= { sipCommonCfgBase 4 }

sipCommonMethodSupportedEntry OBJECT-TYPE

SYNTAX SipCommonMethodSupportedEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A particular method supported by the SIP entity.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonMethodSupportedIndex }

::= { sipCommonMethodSupportedTable 1 }

SipCommonMethodSupportedEntry ::= SEQUENCE {

sipCommonMethodSupportedIndex Unsigned32,

sipCommonMethodSupportedName SipTCMethodName

}

sipCommonMethodSupportedIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table and reflects an assigned number used to identify a specific SIP method.

This identifier is suitable for referencing the associated method throughout this and other MIBs supported by this managed system."

::= { sipCommonMethodSupportedEntry 1 }

sipCommonMethodSupportedName OBJECT-TYPE

```

SYNTAX    SipTCMethodName
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "This object reflects the supported method's name. The method
    name MUST be all upper case (e.g., 'INVITE')."
::= { sipCommonMethodSupportedEntry 2 }

--
-- SIP Timer Configuration
--

sipCommonCfgTimerTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF SipCommonCfgTimerEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "This table contains timer configuration objects applicable to
        SIP user agent and SIP stateful Proxy Server entities."
    ::= { sipCommonCfgTimer 1 }

sipCommonCfgTimerEntry OBJECT-TYPE
    SYNTAX    SipCommonCfgTimerEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "A row of timer configuration.

        Each row represents those objects for a particular SIP entity
        present
        in this system.  applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788).
        The objects in this table entry SHOULD be non-volatile and
        their value SHOULD be kept at reboot."

        INDEX { applIndex }
    ::= { sipCommonCfgTimerTable 1 }

SipCommonCfgTimerEntry ::= SEQUENCE {
    sipCommonCfgTimerA      Unsigned32,
    sipCommonCfgTimerB      Unsigned32,
    sipCommonCfgTimerC      Unsigned32,
    sipCommonCfgTimerD      Unsigned32,
    sipCommonCfgTimerE      Unsigned32,
    sipCommonCfgTimerF      Unsigned32,
    sipCommonCfgTimerG      Unsigned32,

```

sipCommonCfgTimerH	Unsigned32,
sipCommonCfgTimerI	Unsigned32,
sipCommonCfgTimerJ	Unsigned32,
sipCommonCfgTimerK	Unsigned32,
sipCommonCfgTimerT1	Unsigned32,
sipCommonCfgTimerT2	Unsigned32,
sipCommonCfgTimerT4	Unsigned32
}	

sipCommonCfgTimerA OBJECT-TYPE

SYNTAX Unsigned32 (100..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for the INVITE method. The retransmit timer doubles after each retransmission, ensuring an exponential backoff in network traffic. This object represents the initial time a SIP entity will wait to receive a provisional response to an INVITE before resending the INVITE request."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 1 }

sipCommonCfgTimerB OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive a final response to an INVITE. The timer is started upon transmission of the initial INVITE request."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 2 }

sipCommonCfgTimerC OBJECT-TYPE

SYNTAX Unsigned32 (180000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP Proxy Server will wait to receive a provisional response to an INVITE. The Timer C MUST be set for each client transaction when an INVITE request is proxied."

REFERENCE

"RFC 3261, Section 16.6"

DEFVAL { 180000 }

::= { sipCommonCfgTimerEntry 3 }

sipCommonCfgTimerD OBJECT-TYPE

SYNTAX Unsigned32 (0..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the amount of time that the server transaction can remain in the 'Completed' state when unreliable transports are used. The default value MUST be equal to or greater than 32000 for UDP transport, and its value MUST be 0 for TCP/SCTP transport."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 4 }

sipCommonCfgTimerE OBJECT-TYPE

SYNTAX Unsigned32 (100..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for a non-INVITE method while in 'Trying' state. The retransmit timer doubles after each retransmission until it reaches T2 to ensure an exponential backoff in network traffic. This object represents the initial time a SIP entity will wait to receive a provisional response to the request before resending the non-INVITE request."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 500 }
::= { sipCommonCfgTimerEntry 5 }

sipCommonCfgTimerF OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive a final response to a non-INVITE request. The timer is started upon transmission of the initial request."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 6 }

sipCommonCfgTimerG OBJECT-TYPE

SYNTAX Unsigned32 (0..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for final responses to INVITE requests. If timer G fires, the response is passed to the transport layer again for retransmission,

and timer G is set to fire in $\text{MIN}(2 \cdot T1, T2)$

seconds. From then on, when timer G fires, the response is passed to the transport again for transmission, and timer G is reset with a value that doubles, unless that value exceeds $T2$, in which case, it is reset with the value of $T2$. The default value MUST be $T1$ for UDP transport, and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 7 }

sipCommonCfgTimerH OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a server will wait to receive an ACK before it abandons retransmitting the response."

The timer is started upon entering the 'Completed' state."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 32000 }

::=

{ sipCommonCfgTimerEntry 8 }

sipCommonCfgTimerI OBJECT-TYPE

SYNTAX Unsigned32 (0..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive additional ACK message retransmissions.

The timer is started upon entering the 'Confirmed' state. The default value MUST be T4 for UDP transport and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 9 }

sipCommonCfgTimerJ OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP server will wait to receive retransmissions of non-INVITE requests. The timer is started upon entering the 'Completed' state for non-INVITE transactions. When timer J fires, the server MUST transition to the 'Terminated' state."

REFERENCE

"RFC 3261, Section 17.2.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 10 }

sipCommonCfgTimerK OBJECT-TYPE

SYNTAX Unsigned32 (0..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP client will wait to receive retransmissions of responses to non-INVITE requests. The timer is started upon entering the 'Completed' state for

non-INVITE transactions. When timer K fires, the server MUST transition to the 'Terminated' state. The default value MUST be T4 for UDP transport, and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 11 }

sipCommonCfgTimerT1 OBJECT-TYPE

SYNTAX

Unsigned32 (200..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T1 timer for a SIP entity. T1 is an estimate of the round-trip time (RTT) between the client and server transactions."

REFERENCE

"RFC 3261, Section 17"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 12 }

sipCommonCfgTimerT2 OBJECT-TYPE

SYNTAX Unsigned32 (200..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T2 timer for a SIP entity. T2 is the maximum retransmit interval for non-INVITE requests and INVITE responses. It's used in various parts of the protocol to reset other Timer* objects to this value."

REFERENCE

"RFC 3261, Section 17"

DEFVAL { 4000 }

::= { sipCommonCfgTimerEntry 13 }

sipCommonCfgTimerT4 OBJECT-TYPE

SYNTAX Unsigned32 (200..10000)

UNITS

"milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T4 timer for a SIP entity. T4 is the maximum duration a message will remain in the network. It represents the amount of time the network will take to clear messages between client and server transactions. It's used in

various parts of the protocol to reset other Timer* objects to this value."

REFERENCE

"RFC 3261, Section 17"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 14 }

--

-- Common Statistics Objects

--

--

-- Summary Statistics

--

sipCommonSummaryStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonSummaryStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the summary statistics objects applicable to all SIP entities. Each row represents those objects for a particular SIP entity present in this system."

::= {

sipCommonSummaryStats 1 }

sipCommonSummaryStatsEntry OBJECT-TYPE

SYNTAX SipCommonSummaryStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of summary statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

```
INDEX { applIndex }  
::= { sipCommonSummaryStatsTable 1 }
```

```
SipCommonSummaryStatsEntry ::= SEQUENCE {  
    sipCommonSummaryInRequests      Counter32,  
    sipCommonSummaryOutRequests      Counter32,  
    sipCommonSummaryInResponses      Counter32,  
    sipCommonSummaryOutResponses     Counter32,  
    sipCommonSummaryTotalTransactions Counter32,  
    sipCommonSummaryDisconTime       TimeStamp  
}
```

sipCommonSummaryInRequests OBJECT-TYPE

```
SYNTAX      Counter32  
MAX-ACCESS  read-only  
STATUS      current  
DESCRIPTION
```

"This object indicates the total number of SIP request messages received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

```
::= { sipCommonSummaryStatsEntry 1 }
```

sipCommonSummaryOutRequests OBJECT-TYPE

```
SYNTAX      Counter32  
MAX-ACCESS  read-only  
STATUS      current  
DESCRIPTION
```

"This object contains the total number of SIP request messages sent out (originated and relayed) by the SIP entity. Where a particular message is sent more than once, for example as a retransmission or as a result of forking, each transmission is counted separately.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

```
::= { sipCommonSummaryStatsEntry 2 }
```

sipCommonSummaryInResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP response messages received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 3 }

sipCommonSummaryOutResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP response messages sent (originated and relayed) by the SIP entity including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 4 }

sipCommonSummaryTotalTransactions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains a count of the number of transactions that are in progress and transactions that have reached the 'Terminated' state. It is not applicable to stateless SIP Proxy Servers.

A SIP transaction occurs between a client and a server, and comprises all messages from the first request sent from the

client to the server, up to a final (non-1xx) response sent from the server to the client.

If the request is INVITE and the final response is a non-2xx, the transaction also include an ACK to the response. The ACK for a 2xx response to an INVITE request is a separate transaction.

The branch ID parameter in the Via header field values serves as a transaction identifier.

A transaction is identified by the CSeq sequence number within a single call leg. The ACK request has the same CSeq number as the corresponding INVITE request, but comprises a transaction of its own.

In the case of a forked request, each branch counts as a single transaction.

For a transaction stateless Proxy Server, this counter is always 0.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management

Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

```
::= { sipCommonSummaryStatsEntry 5 }
```

sipCommonSummaryDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the summary statistics objects in this row last experienced a discontinuity."

```
::= { sipCommonSummaryStatsEntry 6 }
```

--

-- SIP Method Statistics

-- Total counts for each SIP method.

--

sipCommonMethodStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonMethodStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the method statistics objects for SIP entities. Each row represents those objects for a particular SIP entity present in this system."

::= { sipCommonMethodStats 1 }

sipCommonMethodStatsEntry OBJECT-TYPE

SYNTAX SipCommonMethodStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of per entity method statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonMethodStatsName }

::= { sipCommonMethodStatsTable 1 }

SipCommonMethodStatsEntry ::= SEQUENCE {
 sipCommonMethodStatsName SipTCMethodName,
 sipCommonMethodStatsOutbounds Counter32,

 sipCommonMethodStatsInbounds Counter32,
 sipCommonMethodStatsDisconTime TimeStamp

}

sipCommonMethodStatsName OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies the SIP method related to the objects in a particular row."

::= { sipCommonMethodStatsEntry 1 }

sipCommonMethodStatsOutbounds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of requests sent by the SIP entity, excluding retransmissions. Retransmissions are counted separately and are not reflected in this counter. A Management Station can detect discontinuities in this counter by monitoring the sipCommonMethodStatsDisconTime object in the same row."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonMethodStatsEntry 2 }

sipCommonMethodStatsInbounds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of requests received by the SIP entity. Retransmissions are counted separately and are not reflected in this counter. A Management Station can detect

discontinuities in this counter by monitoring the sipCommonMethodStatsDisconTime object in the same row."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonMethodStatsEntry 3 }

sipCommonMethodStatsDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the method statistics objects in this row last experienced a discontinuity."

::= { sipCommonMethodStatsEntry 4 }

--

-- Support for specific status codes

--

sipCommonStatusCodeTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatusCodeEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the list of SIP status codes that each SIP

entity in this system has been requested to monitor. It is the mechanism by which specific status codes are monitored.
 Entries created in this table must not persist across reboots."
 ::= { sipCommonStatusCode 1 }

sipCommonStatusCodeEntry OBJECT-TYPE

SYNTAX SipCommonStatusCodeEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This row contains information on a particular SIP status code that the SIP entity has been requested to monitor. Entries created in this table must not persist across reboots.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonStatusCodeMethod,
 sipCommonStatusCodeValue }
 ::= { sipCommonStatusCodeTable 1 }

SipCommonStatusCodeEntry ::= SEQUENCE {

sipCommonStatusCodeMethod SipTCMethodName,

sipCommonStatusCodeValue Unsigned32,

sipCommonStatusCodeIns

Counter32,

sipCommonStatusCodeOuts Counter32,

sipCommonStatusCodeRowStatus RowStatus,

sipCommonStatusCodeDisconTime TimeStamp

}

sipCommonStatusCodeMethod OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table."

::= { sipCommonStatusCodeEntry 1 }

sipCommonStatusCodeValue OBJECT-TYPE

SYNTAX Unsigned32 (100..999)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object contains a SIP status code value that the SIP entity has been requested to monitor. All of the other information in the row is related to this value."

::= { sipCommonStatusCodeEntry 2 }

sipCommonStatusCodeIns OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of response messages received by the SIP entity with the status code value contained in the sipCommonStatusCodeValue column.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service, or when the monitoring of the status code is temporarily disabled. A Management Station can detect discontinuities in this counter by monitoring the sipCommonStatusCodeDisconTime object in the same row."

::= { sipCommonStatusCodeEntry 3 }

sipCommonStatusCodeOuts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of response messages sent by the SIP entity with the status code value contained in the sipCommonStatusCodeValue column.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service, or when the monitoring of the Status code is temporarily disabled. A Management Station can detect discontinuities in this counter by monitoring the sipCommonStatusCodeDisconTime object in the same row."

::= { sipCommonStatusCodeEntry 4 }

sipCommonStatusCodeRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The row augmentation in sipCommonStatusCodeNotifTable will be governed by the value of this RowStatus.

The values 'createAndGo' and 'destroy' are the only valid values allowed for this object. If a row exists, it will reflect a status of 'active' when queried."

::= { sipCommonStatusCodeEntry 5 }

sipCommonStatusCodeDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the status code statistics objects in this row last experienced a discontinuity."

::= { sipCommonStatusCodeEntry 6 }

--

-- Support for specific status code notifications

--

sipCommonStatusCodeNotifTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatusCodeNotifEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects to control notifications related to particular status codes that each SIP entity in this system has been requested to monitor.

There is an entry in this table corresponding to each entry in sipCommonStatusCodeTable. Therefore, this table augments sipCommonStatusCodeTable and utilizes the same index methodology.

The objects in this table are not included directly in the sipCommonStatusCodeTable simply to keep the status code notification control objects separate from the actual status code statistics."

::= { sipCommonStatusCode 2 }

sipCommonStatusCodeNotifEntry OBJECT-TYPE

SYNTAX

SipCommonStatusCodeNotifEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This row contains information controlling notifications for a particular SIP status code that the SIP entity has been requested to monitor."

AUGMENTS { sipCommonStatusCodeEntry }

::= { sipCommonStatusCodeNotifTable 1 }

```
SipCommonStatusCodeNotifEntry ::= SEQUENCE {  
    sipCommonStatusCodeNotifSend      TruthValue,  
    sipCommonStatusCodeNotifEmitMode  INTEGER,  
    sipCommonStatusCodeNotifThresh    Unsigned32,  
    sipCommonStatusCodeNotifInterval  Unsigned32  
}
```

sipCommonStatusCodeNotifSend OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls whether a sipCommonStatusCodeNotif is emitted when the status code value specified by sipCommonStatusCodeValue is sent or received. If the value of this object is 'true', then a notification

is sent. If it is

'false', no notification is sent.

Note well that a notification MAY be emitted for every message sent or received that contains the particular status code.

Depending on the status code involved, this can cause a significant number of notification emissions that could be detrimental to network performance. Managers are forewarned to be prudent in the use of this object to enable notifications.

Look to sipCommonStatusCodeNotifEmitMode for alternative controls for sipCommonStatusCodeNotif emissions."

DEFVAL { false }

::= { sipCommonStatusCodeNotifEntry 1 }

sipCommonStatusCodeNotifEmitMode OBJECT-TYPE

```
SYNTAX INTEGER {  
    normal(1),  
    oneShot(2),  
    triggered(3) -- read-only  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The object sipCommonStatusCodeNotifSend MUST be set to 'true' for the values of this object to have any effect. It is RECOMMENDED that the desired emit mode be established by this object prior to setting sipCommonStatusCodeNotifSend to 'true'. This object and the sipCommonStatusCodeNotifSend object can obviously be set independently, but their respective values will have a dependency on each other and the resulting notifications.

This object specifies the mode for emissions of sipCommonStatusCodeNotif notifications.

normal : sipCommonStatusCodeNotif notifications will be emitted by the system for each SIP response message sent or received that contains the desired status code.

oneShot : Only one sipCommonStatusCodeNotif notification will be emitted. It will be the next SIP response message sent or received that contains the desired status code.

No more notifications are emitted until this object is set to 'oneShot' again or set to 'normal'. This option is provided as a means of quelling the potential promiscuous behavior that can be associated with the sipCommonStatusCodeNotif.

triggered : This value is only readable and cannot be set. It reflects that the 'oneShot' case has occurred, and indicates that the mode needs to be reset to get further notifications. The mode is reset by setting this object to 'oneShot' or 'normal'."

DEFVAL { oneShot }

::= { sipCommonStatusCodeNotifEntry 2 }

sipCommonStatusCodeNotifThresh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the number of response messages sent or

received by this system that are considered excessive. Based on crossing that threshold, a sipCommonStatusCodeThreshExceededInNotif notification or a sipCommonStatusCodeThreshExceededOutNotif will be sent. The sipCommonStatusCodeThreshExceededInNotif and

sipCommonStatusCodeThreshExceededOutNotif notifications can be used as an early warning mechanism in lieu of using sipCommonStatusCodeNotif.

Note that the configuration applied by this object will be applied equally to inbound and outbound response messages."

DEFVAL { 500 }

::= { sipCommonStatusCodeNotifEntry 3 }

sipCommonStatusCodeNotifInterval OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the time interval over which, if sipCommonStatusCodeThresh is exceeded with respect to sent or received messages, a sipCommonStatusCodeThreshExceededInNotif or sipCommonStatusCodeThreshExceededOutNotif notification will be sent.

Note that the configuration applied by this object will be applied equally to inbound and outbound response messages."

DEFVAL { 60 }

::= { sipCommonStatusCodeNotifEntry 4 }

--

-- Transaction Statistics

--

sipCommonTransCurrentTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonTransCurrentEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information on the transactions currently awaiting definitive responses by each SIP entity in this system.

This table does not apply to transaction stateless Proxy

```

Servers."
::= { sipCommonStatsTrans 1 }

sipCommonTransCurrentEntry OBJECT-TYPE
    SYNTAX      SipCommonTransCurrentEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Information on a particular SIP entity's current transactions.

        Each row represents those objects for a particular SIP entity
        present in this system. applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
```

INDEX { applIndex }

```

::= { sipCommonTransCurrentTable 1 }

SipCommonTransCurrentEntry ::= SEQUENCE {
    sipCommonTransCurrentactions Gauge32
}

sipCommonTransCurrentactions OBJECT-TYPE
    SYNTAX      Gauge32 (0..4294967295)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains the number of transactions awaiting
        definitive (non-1xx) response. In the case of a forked
        request, each branch counts as a single transaction
        corresponding to the entity identified by applIndex."
    ::= { sipCommonTransCurrentEntry 1 }

--
-- SIP Retry Statistics
--
-- This group contains various statistics objects about
-- retransmission counts.
--

sipCommonStatsRetryTable
    OBJECT-TYPE
        SYNTAX      SEQUENCE OF SipCommonStatsRetryEntry
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "This table contains retry statistics objects applicable to each
            SIP entity in this system."
```

::= { sipCommonStatsRetry 1 }

sipCommonStatsRetryEntry OBJECT-TYPE

SYNTAX SipCommonStatsRetryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of retry statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonStatsRetryMethod }

::= { sipCommonStatsRetryTable 1 }

SipCommonStatsRetryEntry ::= SEQUENCE {

sipCommonStatsRetryMethod SipTCMethodName,

sipCommonStatsRetries

Counter32,

sipCommonStatsRetryFinalResponses Counter32,

sipCommonStatsRetryNonFinalResponses Counter32,

sipCommonStatsRetryDisconTime TimeStamp

}

sipCommonStatsRetryMethod OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies the SIP method related to the objects in a row."

::= { sipCommonStatsRetryEntry 1 }

sipCommonStatsRetries OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of request retransmissions that have been sent by the SIP entity. Note that there could be multiple retransmissions per request.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management

Station can detect discontinuities in this counter by
monitoring
the sipCommonStatsRetryDisconTime object in the same
row."
::= { sipCommonStatsRetryEntry 2 }

sipCommonStatsRetryFinalResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of Final Response retries
that have been sent by the SIP entity. Note that there could
be multiple retransmissions per request.

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by

monitoring the sipCommonStatsRetryDisconTime object in the same
row."

::= { sipCommonStatsRetryEntry 3 }

sipCommonStatsRetryNonFinalResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of non-Final Response
retries that
have been sent by the SIP entity.

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by
monitoring the sipCommonStatsRetryDisconTime object in the same
row."

::= { sipCommonStatsRetryEntry 4 }

sipCommonStatsRetryDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the
retry statistics objects in this row last experienced a

```

        discontinuity."
 ::= { sipCommonStatsRetryEntry 5 }

--
-- Other Common Statistics
--
sipCommonOtherStatsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SipCommonOtherStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains other common statistics supported by each
        SIP entity in this system."
    ::= {
sipCommonOtherStats 1 }

sipCommonOtherStatsEntry OBJECT-TYPE
    SYNTAX      SipCommonOtherStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Information on a particular SIP entity's other common
        statistics.

        Each row represents those objects for a particular SIP entity
        present in this system.  applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex }
    ::= { sipCommonOtherStatsTable 1 }

SipCommonOtherStatsEntry ::= SEQUENCE {
    sipCommonOtherStatsNumUnsupportedUris    Counter32,
    sipCommonOtherStatsNumUnsupportedMethods Counter32,
    sipCommonOtherStatsOtherwiseDiscardedMsgs Counter32,
    sipCommonOtherStatsDisconTime    TimeStamp
}

sipCommonOtherStatsNumUnsupportedUris OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of RequestURIs received with an unsupported scheme.
        A server normally responds to such requests with a 400 Bad

```


Request status code.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 1 }

sipCommonOtherStatsNumUnsupportedMethods OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of SIP requests received with unsupported methods. A server normally responds to such requests with a 501 (Not Implemented) or 405 (Method Not Allowed).

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can

detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 2 }

sipCommonOtherStatsOtherwiseDiscardedMsgs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of SIP messages received that, for any number of reasons, was discarded without a response.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 3 }

sipCommonOtherStatsDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the statistics objects in this row last experienced a discontinuity."
 ::= { sipCommonOtherStatsEntry 4 }

--

-- Notification related objects

--

--

-- Status code related notification objects.

--

sipCommonStatusCodeNotifTo OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the value of the To header in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'To: Watson '."

::= { sipCommonNotifObjects 1 }

sipCommonStatusCodeNotifFrom OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the value of the From header in the message containing the status code that caused the

notification. The header name will be part of this object value. For example, 'From: Watson '."

::= { sipCommonNotifObjects
2 }

sipCommonStatusCodeNotifCallId OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the value of the Call-ID in the message containing the status code that caused the notification. The header name will be part of this object value. For example,

'Call-ID: 5551212@example.com'.
::= { sipCommonNotifObjects 3 }

sipCommonStatusCodeNotifCSeq OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the CSeq value in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'CSeq: 1722 INVITE'."

::= { sipCommonNotifObjects 4 }

--

-- General notification related objects.

--

sipCommonNotifApplIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the applIndex as described in RFC 2788. This object is created in order to allow a variable binding containing a value of applIndex in a notification."

::= { sipCommonNotifObjects 5 }

sipCommonNotifSequenceNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains a sequence number for each notification generated by this SIP entity. Each notification SHOULD have a unique sequence number. A network manager can use this information to determine whether notifications from a

particular SIP entity have been missed. The value of this object MUST start at 1 and increase by 1 with each generated notification. If a system restarts, the sequence number MAY start again from 1."

::= { sipCommonNotifObjects

6 }

--

-- Notifications

--

sipCommonStatusCodeNotif NOTIFICATION-TYPE

OBJECTS {

 sipCommonNotifSequenceNumber,
 sipCommonNotifApplIndex,
 sipCommonStatusCodeNotifTo,
 sipCommonStatusCodeNotifFrom,
 sipCommonStatusCodeNotifCallId,
 sipCommonStatusCodeNotifCSeq,
 sipCommonStatusCodeIns,
 sipCommonStatusCodeOuts

}

STATUS current

DESCRIPTION

"Signifies that a specific status code has been sent or received
by the system."

::= { sipCommonMIBNotifications 1 }

sipCommonStatusCodeThreshExceededInNotif NOTIFICATION-TYPE

OBJECTS {

 sipCommonNotifSequenceNumber,
 sipCommonNotifApplIndex,
 sipCommonStatusCodeIns

}

STATUS current

DESCRIPTION

"Signifies that a specific status code was found to have been
received by the system frequently enough to exceed the
configured threshold. This notification can be used as
an early warning mechanism

in lieu of using

 sipCommonStatusCodeNotif."

::= { sipCommonMIBNotifications 2 }

sipCommonStatusCodeThreshExceededOutNotif NOTIFICATION-TYPE

OBJECTS {

 sipCommonNotifSequenceNumber,
 sipCommonNotifApplIndex,
 sipCommonStatusCodeOuts

}

STATUS current

DESCRIPTION

"Signifies that a specific status code was found to have been
sent by the system enough to exceed the configured threshold.

This notification can be used as an early warning mechanism in lieu of using sipCommonStatusCodeNotif."
::= { sipCommonMIBNotifications 3 }

sipCommonServiceColdStart NOTIFICATION-TYPE

OBJECTS {

sipCommonNotifSequenceNumber,
sipCommonNotifApplIndex,
sipCommonCfgServiceStartTime

}

STATUS current

DESCRIPTION

"Signifies that the SIP service has reinitialized itself or started for the first time. This SHOULD result from a hard 'down' to 'up' administrative status change. The configuration or behavior of the service MAY be altered."

::= { sipCommonMIBNotifications 4 }

sipCommonServiceWarmStart NOTIFICATION-TYPE

OBJECTS {

sipCommonNotifSequenceNumber,
sipCommonNotifApplIndex,
sipCommonCfgServiceLastChange

}

STATUS current

DESCRIPTION

"Signifies that the SIP service has reinitialized itself and is restarting after an administrative 'reset'. The configuration or behavior of the service MAY be altered."

::= { sipCommonMIBNotifications 5 }

sipCommonServiceStatusChanged NOTIFICATION-TYPE

OBJECTS {

sipCommonNotifSequenceNumber,
sipCommonNotifApplIndex,
sipCommonCfgServiceLastChange,
sipCommonCfgServiceOperStatus

}

STATUS current

DESCRIPTION

"Signifies that the SIP service operational status has changed."

::= { sipCommonMIBNotifications 6 }

--

-- Conformance

```

--
sipCommonMIBCompliances
  OBJECT IDENTIFIER
  ::= { sipCommonMIBConformance 1 }
sipCommonMIBGroups
  OBJECT IDENTIFIER ::= { sipCommonMIBConformance 2 }

--
-- Compliance Statements
--
sipCommonCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
    "The compliance statement for SIP entities."

  MODULE -- this module
    MANDATORY-GROUPS { sipCommonConfigGroup,
                        sipCommonStatsGroup
                      }

  OBJECT      sipCommonStatusCodeRowStatus
  SYNTAX      RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT      sipCommonCfgServiceNotifEnable
  MIN-ACCESS  not-accessible
  DESCRIPTION
    "This object is optional and does not need to be supported."

  GROUP       sipCommonInformationalGroup
  DESCRIPTION
    "This group is OPTIONAL. A SIP entity can elect to not provide
    any support for these objects, as they
provide optional
    information."

  GROUP       sipCommonConfigTimerGroup
  DESCRIPTION
    "This group is OPTIONAL. A SIP entity can elect to not provide
    any timer configuration."

  GROUP       sipCommonStatsRetryGroup
  DESCRIPTION
    "This group is OPTIONAL. A SIP entity can elect to not provide
    any retry statistics."

```

GROUP sipCommonNotifGroup
DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonStatusCodeNotifGroup and sipCommonNotifObjectsGroup MUST also be implemented."

GROUP sipCommonStatusCodeNotifGroup
DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonNotifGroup and sipCommonNotifObjectsGroup MUST also be implemented."

GROUP sipCommonNotifObjectsGroup
DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonStatusCodeNotifGroup and sipCommonNotifGroup MUST also be implemented."

::= { sipCommonMIBCompliances 1 }

--

-- Units of Conformance

--

sipCommonConfigGroup OBJECT-GROUP

OBJECTS {

sipCommonCfgProtocolVersion,
sipCommonCfgServiceOperStatus,
sipCommonCfgServiceStartTime,
sipCommonCfgServiceLastChange,
sipCommonPortTransportRcv,
sipCommonOptionTag,
sipCommonOptionTagHeaderField,
sipCommonCfgMaxTransactions,
sipCommonCfgServiceNotifEnable,
sipCommonCfgEntityType,
sipCommonMethodSupportedName

}

STATUS current

DESCRIPTION

"A collection of objects providing configuration common to all SIP entities."

::= { sipCommonMIBGroups 1 }

sipCommonInformationalGroup OBJECT-GROUP

OBJECTS {
 sipCommonCfgOrganization
}
STATUS current

DESCRIPTION

"A collection of objects providing configuration common to all
SIP entities."

::= { sipCommonMIBGroups 2 }

sipCommonConfigTimerGroup OBJECT-GROUP

OBJECTS {
 sipCommonCfgTimerA,
 sipCommonCfgTimerB,
 sipCommonCfgTimerC,
 sipCommonCfgTimerD,
 sipCommonCfgTimerE,
 sipCommonCfgTimerF,
 sipCommonCfgTimerG,
 sipCommonCfgTimerH,
 sipCommonCfgTimerI,
 sipCommonCfgTimerJ,
 sipCommonCfgTimerK,
 sipCommonCfgTimerT1,
 sipCommonCfgTimerT2,
 sipCommonCfgTimerT4
}

STATUS current

DESCRIPTION

"A collection of objects providing timer configuration common to
all SIP entities."

::= { sipCommonMIBGroups 3 }

sipCommonStatsGroup OBJECT-GROUP

OBJECTS {
 sipCommonSummaryInRequests,
 sipCommonSummaryOutRequests,

 sipCommonSummaryInResponses,
 sipCommonSummaryOutResponses,
 sipCommonSummaryTotalTransactions,
 sipCommonSummaryDisconTime,
 sipCommonMethodStatsOutbounds,

sipCommonMethodStatsInbounds,
sipCommonMethodStatsDisconTime,
sipCommonStatusCodeIns,
sipCommonStatusCodeOuts,
sipCommonStatusCodeRowStatus,
sipCommonStatusCodeDisconTime,
sipCommonTransCurrentactions,
sipCommonOtherStatsNumUnsupportedUris,
sipCommonOtherStatsNumUnsupportedMethods,
sipCommonOtherStatsOtherwiseDiscardedMsgs,
sipCommonOtherStatsDisconTime

}

STATUS current

DESCRIPTION

"A collection of objects providing statistics common to all SIP entities."

::= { sipCommonMIBGroups 4 }

sipCommonStatsRetryGroup OBJECT-GROUP

OBJECTS {

sipCommonStatsRetries,
sipCommonStatsRetryFinalResponses,
sipCommonStatsRetryNonFinalResponses,
sipCommonStatsRetryDisconTime

}

STATUS current

DESCRIPTION

"A collection of objects providing retry statistics."

::= { sipCommonMIBGroups 5 }

sipCommonNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {

sipCommonStatusCodeNotif,
sipCommonStatusCodeThreshExceededInNotif,
sipCommonStatusCodeThreshExceededOutNotif,
sipCommonServiceColdStart,
sipCommonServiceWarmStart,
sipCommonServiceStatusChanged

}

STATUS current

DESCRIPTION

"A collection of notifications common to all SIP entities."

::= { sipCommonMIBGroups 6 }

sipCommonStatusCodeNotifGroup OBJECT-GROUP

OBJECTS {

sipCommonStatusCodeNotifSend,
sipCommonStatusCodeNotifEmitMode,
sipCommonStatusCodeNotifThresh,
sipCommonStatusCodeNotifInterval

}

STATUS current

DESCRIPTION

"A collection of
objects related to the control and attribution
of notifications common to all SIP entities."
::= { sipCommonMIBGroups 7 }

sipCommonNotifObjectsGroup OBJECT-GROUP

OBJECTS {

sipCommonStatusCodeNotifTo,
sipCommonStatusCodeNotifFrom,
sipCommonStatusCodeNotifCallId,
sipCommonStatusCodeNotifCSeq,
sipCommonNotifApplIndex,
sipCommonNotifSequenceNumber

}

STATUS current

DESCRIPTION

"A collection of accessible-for-notify objects related to the
notification defined in this MIB module."
::= { sipCommonMIBGroups 8 }

END

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-COMMON-MIB

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

RMON2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Counter32, Integer32,
Gauge32, IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI
TEXTUAL-CONVENTION, RowStatus, DisplayString, TimeStamp
FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
ifIndex FROM IF-MIB

OwnerString, statistics, history, hosts,
matrix, filter, etherStatsEntry, historyControlEntry,

hostControlEntry, matrixControlEntry, filterEntry,
channelEntry FROM RMON-MIB
tokenRing, tokenRingMLStatsEntry, tokenRingPStatsEntry,

ringStationControlEntry, sourceRoutingStatsEntry
 FROM TOKEN-RING-RMON-MIB;

-- Remote Network Monitoring MIB

rmon MODULE-IDENTITY

LAST-UPDATED "200605020000Z" -- May 2, 2006

ORGANIZATION "IETF RMON

MIB Working Group"

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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.

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this MIB module is part of RFC 4502; see the RFC itself for
full legal notices."

REVISION "200605020000Z" -- May 2, 2006

DESCRIPTION

"This version updates the proposed-standard version of the
RMON2 MIB (published
as RFC 2021) by adding 2 new
enumerations to the nlMatrixTopNControlRateBase object and
4 new enumerations to the alMatrixTopNControlRateBase object.
These new enumerations support the creation of high-capacity
topN reports in the High Capacity RMON MIB [RFC3273].

Additionally, the following objects have been deprecated, as

they have not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard:

probeDownloadFile
probeDownloadTFTPServer
probeDownloadAction
probeDownloadStatus

serialMode
serialProtocol
serialTimeout
serialModemInitString
serialModemHangUpString
serialModemConnectResp
serialModemNoConnectResp
serialDialoutTimeout
serialStatus
serialConnectDestIpAddress
serialConnectType
serialConnectDialString
serialConnectSwitchConnectSeq
serialConnectSwitchDisconnectSeq
serialConnectSwitchResetSeq
serialConnectOwner
serialConnectStatus
netConfigIpAddress
netConfigSubnetMask
netConfigStatus
netDefaultGateway
tokenRingMLStats2DroppedFrames
tokenRingMLStats2CreateTime
tokenRingPStats2DroppedFrames
tokenRingPStats2CreateTime
ringStationControl2DroppedFrames
ringStationControl2CreateTime
sourceRoutingStats2DroppedFrames
sourceRoutingStats2CreateTime
trapDestIndex
trapDestCommunity
trapDestProtocol
trapDestAddress
trapDestOwner
trapDestStatus

In addition, two corrections were made. The LastCreateTime

Textual Convention had been defined with a base type of another textual convention, which isn't allowed in SMIV2. The definition has been modified to use TimeTicks as the base type.

Further,
the SerialConfigEntry SEQUENCE definition included sub-typing information that is not allowed in SMIV2. This information has been deleted. Ranges were added to a number of objects and textual-conventions to constrain their maximum (and sometimes minimum) sizes. The addition of these ranges documents existing practice for these objects. These objects

are:

- ControlString
- protocolDirID
- protocolDirParameters
- addressMapNetworkAddress
- nlHostAddress
- nlMatrixSDSourceAddress
- nlMatrixSDDestAddress
- nlMatrixDSSourceAddress
- nlMatrixDSDestAddress
- nlMatrixTopNSourceAddress
- nlMatrixTopNDestAddress
- alHostEntry
- alMatrixSDEntry
- alMatrixDSEntry
- alMatrixTopNSourceAddress
- alMatrixTopNDestAddress

Finally, the TimeFilter TC has been updated to encourage agent implementations that allow a MIB walk to behave well even when performed by an application that is not aware of the special TimeFilter semantics."

REVISION "200207080000Z" -- 08 July, 2002

DESCRIPTION

"Added new enumerations to support the High-Capacity RMON MIB as defined in RFC 3273. Also fixed some typos and added clarifications."

REVISION "199605270000Z" -- 27 May, 1996

DESCRIPTION

"Original version. Published as RFC 2021."

::= { mib-2 16 }

-- { rmon 1 } through { rmon 10 } are defined in RMON and
-- the Token Ring RMON MIB [RFC1513]

protocolDir OBJECT IDENTIFIER ::= { rmon 11 }
protocolDist OBJECT IDENTIFIER ::= { rmon 12 }
addressMap OBJECT IDENTIFIER ::= { rmon 13 }
nlHost OBJECT IDENTIFIER ::= { rmon 14 }
nlMatrix OBJECT IDENTIFIER ::= { rmon 15 }
alHost OBJECT IDENTIFIER ::= { rmon 16 }
alMatrix OBJECT IDENTIFIER
::= { rmon 17 }
usrHistory OBJECT IDENTIFIER ::= { rmon 18 }
probeConfig OBJECT IDENTIFIER ::= { rmon 19 }
rmonConformance OBJECT IDENTIFIER ::= { rmon 20 }

-- Textual Conventions

ZeroBasedCounter32 ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TC describes an object that counts events with the following semantics: objects of this type will be set to zero(0) on creation and will thereafter count appropriate events, wrapping back to zero(0) when the value 2^{32} is reached.

Provided that an application discovers the new object within the minimum time to wrap, it can use the initial value as a delta since it last polled the table of which this object is part. It is important for a management station to be aware of this minimum time and the actual time between polls, and to discard data if the actual time is too long or there is no defined minimum time.

Typically, this TC is used in tables where the INDEX space is constantly changing and/or the TimeFilter mechanism is in use."

SYNTAX Gauge32

LastCreateTime ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TC describes an object that stores the value of the sysUpTime object at the last time its entry was created.

This can be used for polling applications to determine that an entry has been deleted and re-created between polls, causing an otherwise undetectable discontinuity in the data.

If sysUpTime is reset to zero as a result of a re-initialization of the network management (sub)system, then the values of all LastCreateTime objects are also reset. However, after approximately 497 days without a re-initialization, the sysUpTime object will reach $2^{32}-1$ and then increment to zero; in this case, existing values of TimeStamp objects do not change.

This can lead to

ambiguities in the value of TimeStamp objects."

SYNTAX TimeTicks

TimeFilter ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"To be used for the index to a table. Allows an application to download only those rows changed since a particular time.

Note that this is not a history mechanism. Only current values of underlying objects are returned; saved instance values associated with particular values of sysUpTime are not.

An entry is considered changed if the value of any object in the entry changes, if the row is created, or if any object in the entry is created or deleted. Note that deleted entries cannot be detected or downloaded.

A time-filtered conceptual table is created by inserting a single object of SYNTAX TimeFilter as the first INDEX component in a copy of an existing basic conceptual table (i.e., any SEQUENCE without a TimeFilter INDEX component). Thus, for

each conceptual entry 'I' in the basic table, there exists N conceptual entries in the time-filtered version, indexed N.I, where 'N' is equal to the value of sysUpTime.

When an application retrieves conceptual instances from a time-filtered table, and an INDEX value is provided for the TimeFilter INDEX component 'N', the agent will only consider returning basic conceptual entries (e.g., 'fooColumn.N.I') if any column within the basic conceptual entry has changed since sysUpTime 'N'. If not, the basic conceptual entry will be ignored for the particular retrieval operation.

When sysUpTime is equal to zero, this table shall be empty.

One conceptual entry exists for each past value of sysUpTime, except that the whole table is purged should sysUpTime wrap.

As an entry in a time-filtered table is updated (i.e., one of the columns in the basic conceptual table is changed), new conceptual

entries are also created in the time-filtered version

(which still shares the now updated object values with all other instances). The number of unique time-filtered instances that are created is determined by the value of sysUpTime at which the basic entry was last updated. One unique instance will exist for each value of sysUpTime at the last update time for the row. However, a new TimeFilter index instance is created for each new sysUpTime value. The TimeFilter index values not associated with entry updates are called duplicate time-filtered instances.

After some deployment experience, it has been determined that a time-filtered table is more efficient if the agent stops a MIB walk operation by skipping over rows with a TimeFilter index value higher than the value in the received GetNext/GetBulk request. That is, instead of incrementing a TimeFilter index value, the agent will continue to the next

object or table. As a consequence, GetNext or GetBulk operations will provide only one pass through a time-filtered table.

It is suggested that an agent implement a time-filtered table in this manner to improve performance and avoid a MIB walk getting stuck in time-filtered tables. It is, however, still acceptable for an agent to implement a time-filtered table in the traditional manner (i.e., every conceptual time-filtered instance is returned in GetNext and GetBulk PDU responses), and management applications must be able to deal with such traditional implementations.

See the appendix for further discussion of this textual convention.

The following example is provided to demonstrate TimeFilter behavior:

Consider the following basic conceptual table, basicFooTable.
(Note that the basic version of a time-filtered table may not actually be defined.)

basicFooTable:

```
basicFooTable ...  
INDEX { fooIndex }  
  
BasicFooEntry {  
    fooIndex    Integer32,  
    fooCounts   Counter32  
}
```

For this example, the basicFooTable contains two static conceptual entries (fooIndex equals '1' and '2'), created at time zero. It also contains one dynamic conceptual entry (fooIndex equals '3'), which is created at time '3' and deleted at time '7'.

The time-filtered version of the basicFooTable could be defined as follows:

FooTable:

```
fooTable ...  
INDEX { fooTimeMark, fooIndex }  
  
FooEntry {  
  
    fooTimeMark TimeFilter,  
    fooIndex    Integer32,  
    fooCounts   Counter32  
}
```

Note that entries exist in the time-filtered conceptual table only if they actually exist in the underlying (basic) table.

For this example, the fooTable will have three underlying basic entries (fooIndex == 1, 2, and 3), with the following activity (for sysUpTime equal 0 to 9):

- fooEntry.N.1 is created at time '0' and most recently updated at time '6' to the value '5'.

- fooEntry.N.2 is created at time '0' and most recently updated at time '8' to the value '9'.
- fooEntry.N.3 is created at time '3', updated at time '5' to the value '17', and deleted at time '7'.

The following tables show the values that would be returned for MIB walk operations with various TimeFilter values, done at different times. An application issues a retrieval request at time 'T', with a TimeFilter value, 'N' (typically set to a lower value, such as the value of sysUpTime at the last polling cycle).

The following values would be returned in a MIB walk of fooCounts.N if T equals '0' and N equals '0':

fooCounts.N.I	Value
fooCounts.0.1	0
fooCounts.0.2	0

Note that nothing is returned for fooCounts.0.3, since that entry does not exist at sysUpTime equals '0'.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '3' and N equals '0':

fooCounts.N.I	Value
fooCounts.0.1	0
fooCounts.0.2	0
fooCounts.0.3	0
fooCounts.1.3	0
fooCounts.2.3	0
fooCounts.3.3	0

Note that there are no instances for T equals 1 or 2 for the first two values of N, as these entries did not change since they were created at time '0'.

Note that the current value for 'fooCounts.N.3' is returned here, even for values of N less than '3' (when the entry was created). The agent only considers the current existence of an entry in the TimeFilter algorithm, not the time when the entry was created.

Note that the instances 'fooCounts.0.3', 'fooCounts.1.3', and 'fooCounts.2.3' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '6' and N equals '3':

fooCounts.N.I	Value
fooCounts.3.1	5
fooCounts.3.3	17
fooCounts.4.1	5
fooCounts.4.3	17
fooCounts.5.1	5
fooCounts.5.3	17
fooCounts.6.1	5

Note that no instances for entry 'fooCounts.N.2' are returned, since it has not changed since time '3'.

Note that all instances except 'fooCounts.5.3' and 'fooCounts.6.1' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '9' and N equals '6':

fooCounts.N.I	Value
fooCounts.6.1	5
fooCounts.6.2	9
fooCounts.7.2	9
fooCounts.8.2	9

Note that no instances for entry 'fooCounts.N.3' are returned, since it was deleted at time '7'.

Note that instances 'fooCounts.6.2' and 'fooCounts.7.2'

are duplicates and can be suppressed by the agent in a MIB walk."

SYNTAX TimeTicks

DataSource ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Identifies the source of the data that the associated function is configured to analyze. This source can be any interface on this device.

In order to identify a particular interface, this object shall identify the instance of the ifIndex object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1."

SYNTAX OBJECT IDENTIFIER

--

-- Protocol Directory Group

--

-- Lists the inventory of protocols the probe has the capability of
-- monitoring and allows the addition, deletion, and configuration of
-- entries in this list.

protocolDirLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time the protocol directory was last modified, either through insertions or deletions, or through modifications of the protocolDirAddressMapConfig, protocolDirHostConfig, or protocolDirMatrixConfig."

::= { protocolDir 1 }

protocolDirTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists the protocols that this agent has the capability to decode and count. There is one entry in this table for each such protocol.

These protocols represent different network-layer, transport-layer, and higher-layer

protocols. The agent should boot up with this table

preconfigured with those protocols that it knows about and wishes to monitor. Implementations are strongly encouraged to support protocols higher than the network layer (at least for the protocol distribution group), even for implementations that don't support the application-layer groups."

::= { protocolDir 2 }

protocolDirEntry OBJECT-TYPE

SYNTAX ProtocolDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDirTable.

An example of the indexing of this entry is protocolDirLocalIndex.8.0.0.0.1.0.0.8.0.2.0.0, which is the encoding of a length of 8, followed by 8 subids encoding the protocolDirID of 1.2048, followed by a length of 2 and the 2 subids encoding zero-valued

parameters.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { protocolDirID, protocolDirParameters }

::= { protocolDirTable 1 }

ProtocolDirEntry ::= SEQUENCE {

protocolDirID	OCTET STRING,
protocolDirParameters	OCTET STRING,
protocolDirLocalIndex	Integer32,
protocolDirDescr	DisplayString,
protocolDirType	BITS,
protocolDirAddressMapConfig	INTEGER,
protocolDirHostConfig	INTEGER,
protocolDirMatrixConfig	INTEGER,
protocolDirOwner	OwnerString,
protocolDirStatus	RowStatus

}

protocolDirID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (4..128))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique identifier for a particular protocol. Standard identifiers will be defined in such a manner that they

can often be used as specifications for new protocols - i.e., a tree-structured assignment mechanism that matches the protocol encapsulation 'tree' and that has algorithmic assignment mechanisms for certain subtrees. See RFC 2074 for more details.

Despite the algorithmic mechanism, the probe will only place entries in here for those protocols it chooses to collect. In other words, it need not populate this table with all possible ethernet protocol types, nor need it create them on the fly when it sees them. Whether it does these things is a matter of product definition (cost/benefit, usability) and is up to the designer of the product.

If an entry is written to this table with a protocolDirID that the agent doesn't understand, either directly or
algorithmically, the SET request will be rejected with an inconsistentName or badValue (for SNMPv1) error."
::= { protocolDirEntry 1 }

protocolDirParameters OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters for the associated protocolDirID. See the associated RMON2 Protocol Identifiers document for a description of the possible parameters. There will be one octet in this string for each sub-identifier in the protocolDirID, and the parameters will appear here in the same order as the associated sub-identifiers appear in the protocolDirID.

Every node in the protocolDirID tree has a different, optional set of parameters defined (that is, the definition of parameters for a node is optional). The proper parameter value for each node is included in this string. Note that the
inclusion of a parameter value in this string for each node is not optional. What is optional is that a node may have no parameters defined, in which case the parameter field for that node will be zero."
::= { protocolDirEntry 2 }

protocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The locally arbitrary but unique identifier associated with this protocolDir entry.

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

The specific value is meaningful only within a given SNMP entity. A protocolDirLocalIndex must not be re-used until the next agent restart in the event that the protocol directory entry is deleted."

::= { protocolDirEntry 3 }

protocolDirDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (1..64))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A textual description of the protocol encapsulation. A probe may choose to describe only a subset of the entire encapsulation (e.g., only the highest layer).

This object is intended for human consumption only.

This object may not be modified if the associated protocolDirStatus object is equal to active(1)."

::= { protocolDirEntry 4 }

protocolDirType OBJECT-TYPE

SYNTAX BITS {
 extensible(0),
 addressRecognitionCapable(1)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object describes 2 attributes of this protocol directory entry.

The presence or absence of the 'extensible' bit describes whether this protocol directory entry can be extended by the user by creating protocol directory entries that are children of this protocol.

An example of an entry that will often allow extensibility is

'ip.udp'. The probe may automatically populate some children of this node, such as 'ip.udp.snmp' and 'ip.udp.dns'.

A probe administrator or user may also populate additional children via remote SNMP requests that create entries in this table. When a child node is added for a protocol for which the probe has no built-in support extending a parent node (for which the probe does have built-in support), that child node is not extendable. This is termed 'limited extensibility'.

When a child node is added through this extensibility mechanism, the values of protocolDirLocalIndex and protocolDirType shall be assigned by the agent.

The other objects in the entry will be assigned by the manager who is creating the new entry.

This object also describes whether this agent can recognize addresses for this protocol, should it be a network-level protocol. That is, while a probe may be able to recognize packets of a particular network-layer protocol and count them, it takes additional logic to be able to recognize the addresses in this protocol and to populate network-layer or application-layer tables with the addresses in this protocol. If this bit is set, the agent will recognize network-layer addresses for this protocol and populate the network- and application-layer host and matrix tables with these protocols.

Note that when an entry is created, the agent will supply values for the bits that match the capabilities of the agent

with respect to this protocol. Note that since row creations usually exercise the limited extensibility feature, these

bits will usually be set to zero."
::= { protocolDirEntry 5 }

protocolDirAddressMapConfig OBJECT-TYPE

SYNTAX INTEGER {
 notSupported(1),
 supportedOff(2),
 supportedOn(3)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object describes and configures the probe's support for address mapping for this protocol. When the probe creates entries in this table for all protocols that it understands,

it will set the entry to notSupported(1) if it doesn't have the capability to perform address mapping for the protocol or if this protocol is not a network-layer protocol. When an entry is created in this table by a management operation as part of the limited extensibility feature,

the probe must set

this value to notSupported(1), because limited extensibility of the protocolDirTable does not extend to interpreting addresses of the extended protocols.

If the value of this object is notSupported(1), the probe will not perform address mapping for this protocol and shall not allow this object to be changed to any other value.

If the value of this object is supportedOn(3), the probe supports address mapping for this protocol and is configured to perform address mapping for this protocol for all addressMappingControlEntries and all interfaces.

If the value of this object is supportedOff(2), the probe supports address mapping for this protocol but is configured to not perform address mapping for this protocol for any addressMappingControlEntries and all interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the addressMappingTable."

::= { protocolDirEntry 6 }

protocolDirHostConfig OBJECT-TYPE

SYNTAX INTEGER {
 notSupported(1),

```

        supportedOff(2),
        supportedOn(3)
    }
MAX-ACCESS read-create
STATUS current
DESCRIPTION

```

"This object describes and configures the probe's support for the network-layer and application-layer host tables for this protocol. When the probe creates entries in this table for all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlHostTable for this protocol or if the alHostTable is implemented but doesn't have the capability to track this protocol. Note that if the alHostTable is implemented, the probe may only support a protocol if it is supported in both the nlHostTable and the

alHostTable.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-layer protocol for which the probe recognizes addresses, and

thus the probe will populate the nlHostTable and alHostTable with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track the nlHostTable or alHostTable for this protocol and shall not allow this object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of the nlHostTable and alHostTable for this protocol and is configured to track both tables for this protocol for all control entries and all interfaces. If the value of this object is supportedOff(2), the probe supports tracking of the nlHostTable and alHostTable for this protocol but is configured to not track these

tables

for any control entries or interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlHostTable and alHostTable.

Note that since each alHostEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."

::= { protocolDirEntry 7 }

protocolDirMatrixConfig OBJECT-TYPE

```
SYNTAX    INTEGER {  
        notSupported(1),  
        supportedOff(2),  
        supportedOn(3)  
    }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object describes and configures the probe's support for the network-layer and application-layer matrix tables for this protocol. When the probe creates entries

in this table for

all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlMatrixTables for this protocol or if the alMatrixTables are implemented but don't have the capability to track this protocol. Note that if the alMatrix tables are implemented, the probe may only support a protocol if it is supported in both of the nlMatrixTables and both of the alMatrixTables.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-

layer protocol for which the probe recognizes addresses, and thus the probe will populate both of the nlMatrixTables and both of the alMatrixTables with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track either of the nlMatrixTables or the alMatrixTables

for this protocol and shall not allow this

object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol and is configured to track these tables for this protocol for all control entries and all interfaces. If the value of this object is supportedOff(2), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol but is configured to not track these tables for this protocol for any control entries or interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlMatrixTables and the alMatrixTables.

Note that since each alMatrixEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."

::= { protocolDirEntry 8 }

protocolDirOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { protocolDirEntry 9 }

protocolDirStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this protocol directory entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlHostTable, nlMatrixSDTable, nlMatrixDSTable, alHostTable, alMatrixSDTable, and alMatrixDSTable shall be deleted."

::= { protocolDirEntry 10 }

--

-- Protocol Distribution Group (protocolDist)

--

-- Collects the relative amounts of octets and packets for the different protocols detected on a network segment.

-- protocolDistControlTable,

-- protocolDistStatsTable

protocolDistControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDistControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Controls the setup of protocol type distribution statistics tables.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of protocol statistics is available.

Rationale:

This table controls collection of very basic statistics for any or all of the protocols detected on a given interface. An NMS can use this table to quickly determine bandwidth allocation utilized by different protocols.

A media-specific statistics collection could also be configured (e.g., etherStats, trPStats) to easily obtain total frame, octet, and droppedEvents for the same interface."

::= { protocolDist 1 }

protocolDistControlEntry OBJECT-TYPE

SYNTAX ProtocolDistControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDistControlTable.

An example of the indexing of this entry is protocolDistControlDroppedFrames.7"

INDEX { protocolDistControlIndex }

::= { protocolDistControlTable 1 }

ProtocolDistControlEntry ::= SEQUENCE {
 protocolDistControlIndex Integer32,
 protocolDistControlDataSource DataSource,
 protocolDistControlDroppedFrames Counter32,
 protocolDistControlCreateTime LastCreateTime,
 protocolDistControlOwner OwnerString,
 protocolDistControlStatus RowStatus
}

protocolDistControlIndex

OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique index for this protocolDistControlEntry."

::= { protocolDistControlEntry 1 }

protocolDistControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for the this protocol distribution.

The statistics in this group reflect all packets
on the local network segment attached to the
identified interface.

This object may not be modified if the associated
protocolDistControlStatus object is equal to active(1)."

::= { protocolDistControlEntry 2 }

protocolDistControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents,

but

that the probe chose not to count for this entry for
whatever reason. Most often, this event occurs when the probe
is out of some resources and decides to shed load from this
collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."

::= { protocolDistControlEntry 3 }

protocolDistControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { protocolDistControlEntry 4 }

protocolDistControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { protocolDistControlEntry 5 }

protocolDistControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this row.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the protocolDistStatsTable shall be deleted."

::= { protocolDistControlEntry 6 }

-- per interface protocol distribution statistics table

protocolDistStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDistStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry is made in this table for every protocol in the protocolDirTable that has been seen in at least one packet. Counters are updated

in this table for every protocol type

that is encountered when parsing a packet, but no counters are

updated for packets with MAC-layer errors.

Note that if a protocolDirEntry is deleted, all associated entries in this table are removed."

::= { protocolDist 2 }

protocolDistStatsEntry OBJECT-TYPE

SYNTAX ProtocolDistStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDistStatsTable.

The index is composed of the protocolDistControlIndex of the associated protocolDistControlEntry, followed by the protocolDirLocalIndex of the associated protocol that this entry represents. In other words, the index identifies the protocol distribution an entry is a part of and the particular protocol that it represents.

An example of the indexing of this entry is
protocolDistStatsPkts.1.18"

INDEX { protocolDistControlIndex,
protocolDirLocalIndex }

::= { protocolDistStatsTable 1 }

ProtocolDistStatsEntry ::= SEQUENCE {

protocolDistStatsPkts ZeroBasedCounter32,

protocolDistStatsOctets ZeroBasedCounter32

}

protocolDistStatsPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type received without errors. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { protocolDistStatsEntry 1 }

protocolDistStatsOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type

received since it was added to the protocolDistStatsTable
(excluding framing bits,
but including FCS octets), except for
those octets in packets that contained errors.

Note that this doesn't count just those octets in the
particular protocol frames but includes the entire packet
that contained the protocol."

::= { protocolDistStatsEntry 2 }

--
-- Address Map Group (addressMap)
--
-- Lists MAC address to network address bindings discovered by the
-- probe and what interface they were last seen on.
-- addressMapControlTable
-- addressMapTable

addressMapInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an address mapping entry has been
inserted into the addressMapTable. If an entry is inserted,
then deleted, and then inserted, this counter will be
incremented by 2.

Note that the table size can be determined by subtracting
addressMapDeletes from addressMapInserts."

::= { addressMap 1 }

addressMapDeletes

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an address mapping entry has been
deleted from the addressMapTable (for any reason). If
an entry is deleted, then inserted, and then deleted, this
counter will be incremented by 2.

Note that the table size can be determined by subtracting
addressMapDeletes from addressMapInserts."

::= { addressMap 2 }

addressMapMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the addressMapTable. The probe will not create more than this number of entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { addressMap 3 }

addressMapControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AddressMapControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table to control the collection of mappings from network layer address to physical address to interface.

Note that this is not like the typical RMON controlTable and dataTable in which each entry creates its own data table. Each entry in this table enables the discovery of addresses on a new interface and the placement of address

mappings into the central addressMapTable.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of address mappings is available."

::= { addressMap 4 }

addressMapControlEntry OBJECT-TYPE

SYNTAX AddressMapControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the addressMapControlTable.

An example of the indexing of this entry is

addressMapControlDroppedFrames.1"

INDEX { addressMapControlIndex }

::= { addressMapControlTable 1 }

AddressMapControlEntry ::= SEQUENCE {

addressMapControlIndex Integer32,

addressMapControlDataSource DataSource,

addressMapControlDroppedFrames Counter32,

addressMapControlOwner OwnerString,

addressMapControlStatus RowStatus

}

addressMapControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"A unique index for this entry in the addressMapControlTable."

::= { addressMapControlEntry 1 }

addressMapControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for this addressMapControlEntry."

::= { addressMapControlEntry 2 }

addressMapControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { addressMapControlEntry 3 }

addressMapControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { addressMapControlEntry 4 }

addressMapControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this addressMap control entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the addressMapTable shall be deleted."

::= { addressMapControlEntry 5 }

addressMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF AddressMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of mappings from network layer address to physical address to interface.

The probe will add entries to this table based on the source MAC and network addresses seen in packets without MAC-level errors. The probe will populate this table for all protocols

in the protocol directory table whose value of
 protocolDirAddressMapConfig is equal to supportedOn(3), and
 will delete any entries whose protocolDirEntry is deleted or
 has a protocolDirAddressMapConfig value of supportedOff(2)."
 ::= { addressMap 5 }

addressMapEntry OBJECT-TYPE

SYNTAX AddressMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the addressMapTable.

The protocolDirLocalIndex in the index identifies the network
 layer protocol of the addressMapNetworkAddress.

An example of the indexing of this entry is
 addressMapSource.783495.18.4.128.2.6.6.11.1.3.6.1.2.1.2.2.1.1.1.

Note that some combinations of index values may result in an
 index that exceeds 128 sub-identifiers in length, which exceeds
 the maximum for the SNMP protocol. Implementations should take
 care to avoid such combinations."

INDEX { addressMapTimeMark, protocolDirLocalIndex,
 addressMapNetworkAddress, addressMapSource }

::= { addressMapTable 1 }

AddressMapEntry ::= SEQUENCE {

addressMapTimeMark TimeFilter,
 addressMapNetworkAddress OCTET STRING,
 addressMapSource OBJECT IDENTIFIER,
 addressMapPhysicalAddress OCTET STRING,
 addressMapLastChange TimeStamp

}

addressMapTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual
 convention to see how this

works."

::= { addressMapEntry 1 }

addressMapNetworkAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network address for this relation.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

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

::= { addressMapEntry 2 }

addressMapSource OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The interface or port on which the associated network address was most recently seen.

If this address mapping was discovered on an interface, this object shall

identify the instance of the ifIndex

object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1.

If this address mapping was discovered on a port, this object shall identify the instance of the rpTrGroupPortIndex object, defined in [RFC2108], for the desired port.

For example, if an entry were to receive data from group #1, port #1, this object would be set to rpTrGroupPortIndex.1.1.

Note that while the dataSource associated with this entry may only point to index objects, this object may at times point to repeater port objects. This situation occurs when the dataSource points to an interface that is a locally attached repeater and the agent has additional information

about the source port of traffic seen on that repeater."
::= { addressMapEntry 3 }

addressMapPhysicalAddress

OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last source physical address on which the associated network address was seen. If the protocol of the associated network address was encapsulated inside of a network-level or higher protocol, this will be the address of the next-lower protocol with the addressRecognitionCapable bit enabled and will be formatted as specified for that protocol."

::= { addressMapEntry 4 }

addressMapLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time this entry was last created or the values of the physical address changed.

This can be used to help detect duplicate address problems, in which case this object will be updated frequently."

::= { addressMapEntry 5 }

--

-- Network Layer Host Group

--

--

Counts the amount of traffic sent from and to each network address

-- discovered by the probe.

-- Note that while the hlHostControlTable also has objects that

-- control an optional alHostTable, implementation of the alHostTable is

-- not required to fully implement this group.

hlHostControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HlHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) host table control

entries.

These entries will enable the collection of the network- and application-level host tables indexed by network addresses. Both the network- and application-level host tables are controlled by this table so that they will both be created and deleted at the same time, further increasing the ease with which they can be implemented as a single datastore. (Note that if an implementation stores application-layer host records

in

memory, it can derive network-layer host records from them.)

Entries in the nlHostTable will be created on behalf of each entry in this table. Additionally, if this probe implements the alHostTable, entries in the alHostTable will be created on behalf of each entry in this table.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of host statistics is available."

```
::= { nlHost 1 }
```

hlHostControlEntry OBJECT-TYPE

SYNTAX HlHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlHostControlTable.

An example of the indexing of this entry is

```
hlHostControlNlDroppedFrames.1"
```

```
INDEX { hlHostControlIndex }
```

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

HlHostControlEntry ::= SEQUENCE {

hlHostControlIndex Integer32,

hlHostControlDataSource

DataSource,

hlHostControlNlDroppedFrames Counter32,

hlHostControlNlInserts Counter32,

hlHostControlNlDeletes Counter32,

hlHostControlNlMaxDesiredEntries Integer32,

hlHostControlAlDroppedFrames Counter32,

hlHostControlAlInserts Counter32,

hlHostControlAlDeletes Counter32,


```

hlHostControlAlMaxDesiredEntries Integer32,
hlHostControlOwner      OwnerString,
hlHostControlStatus     RowStatus
}

```

hlHostControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the hlHostControlTable. Each such entry defines a function that discovers hosts on a particular interface and places statistics about them in the nlHostTable, and optionally in the alHostTable, on behalf of this hlHostControlEntry."

::= { hlHostControlEntry 1 }

hlHostControlDataSource

OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for the associated host tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated hlHostControlStatus object is equal to active(1)."

::= { hlHostControlEntry 2 }

hlHostControlNlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for the associated nlHost entries for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the nlHostTable is inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { hlHostControlEntry 3 }

hlHostControlNlInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlHost entry has been inserted into the nlHost table. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNlDeletes from hlHostControlNlInserts."

::= { hlHostControlEntry 4 }

hlHostControlNlDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlHost entry has been

deleted from the nlHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may

delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting
hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 5 }

hlHostControlNlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the nlHostTable on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number

of entries in this table. If the associated
hlHostControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlHostControlEntry 6 }

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 hlHostControlAlDeletes from hlHostControlAlInserts."

::= { hlHostControlEntry 9 }

hlHostControlAlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alHost table on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlHostControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlHostControlEntry 10 }

hlHostControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { hlHostControlEntry 11 }

hlHostControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this hlHostControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlHostTable and alHostTable shall be deleted."

::= { hlHostControlEntry 12 }

nlHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlHostEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A collection of statistics for a particular network layer address that has been discovered on an interface of this device.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirHostConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses seen as the source or destination address in all packets with no MAC errors, and will increment octet and packet counts in the table for all packets with no MAC errors."

::= { nlHost 2 }

nlHostEntry OBJECT-TYPE

SYNTAX NlHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlHostTable.

The hlHostControlIndex value in the index identifies the hlHostControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network layer protocol of the nlHostAddress.

An example of the indexing of this entry is
nlHostOutPkts.1.783495.18.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

```
INDEX { hlHostControlIndex, nlHostTimeMark,  
        protocolDirLocalIndex, nlHostAddress }  
::= { nlHostTable 1 }
```

```
NlHostEntry ::= SEQUENCE {  
    nlHostTimeMark      TimeFilter,  
    nlHostAddress       OCTET STRING,  
    nlHostInPkts        ZeroBasedCounter32,  
    nlHostOutPkts       ZeroBasedCounter32,  
    nlHostInOctets      ZeroBasedCounter32,  
    nlHostOutOctets     ZeroBasedCounter32,  
    nlHostOutMacNonUnicastPkts ZeroBasedCounter32,  
    nlHostCreateTime   LastCreateTime  
}
```

nlHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

```
::= { nlHostEntry 1 }
```

nlHostAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network address for this nlHostEntry.

This is represented as an octet string with specific semantics and length as identified

by the protocolDirLocalIndex component of the index.

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

::= { nlHostEntry 2 }

nlHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted to

this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 3 }

nlHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 4 }

nlHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular

protocol frames but includes the entire packet that contained the protocol."

::= { nlHostEntry 5 }

nlHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::=

{ nlHostEntry 6 }

nlHostOutMacNonUnicastPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address that were directed to any MAC broadcast addresses or to any MAC multicast addresses since this host was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 7 }

nlHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlHostEntry 8 }

--

-- Network Layer Matrix

Group

--

-- Counts the amount of traffic sent between each pair of network
-- addresses discovered by the probe.

-- Note that while the hlMatrixControlTable also has objects that
-- control optional alMatrixTables, implementation of the

-- alMatrixTables is not required to fully implement this group.

hlMatrixControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) matrix control entries.

These entries will enable the collection of the network- and
application-level matrix tables containing conversation
statistics indexed by pairs of network addresses.

Both the network- and application-level matrix tables are
controlled by this table so that they will both be created
and deleted at the same time, further increasing the ease with
which they can be implemented as a single datastore. (Note that
if an implementation stores application-layer matrix records

in memory, it can derive network-layer matrix records from
them.)

Entries in the nlMatrixSDTable and nlMatrixDSTable will be
created on behalf of each entry in this table. Additionally,
if this probe implements the alMatrix tables, entries in the
alMatrix tables will be created on behalf of each entry in
this table."

::= { nlMatrix 1 }

hlMatrixControlEntry OBJECT-TYPE

SYNTAX HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlMatrixControlTable.

An example of indexing of this entry is

hlMatrixControlNlDroppedFrames.1"

INDEX { hlMatrixControlIndex }

::= { hlMatrixControlTable 1 }

```

HlMatrixControlEntry ::= SEQUENCE {
    hlMatrixControlIndex      Integer32,
    hlMatrixControlDataSource DataSource,
    hlMatrixControlNlDroppedFrames
        Counter32,
    hlMatrixControlNlInserts   Counter32,
    hlMatrixControlNlDeletes   Counter32,
    hlMatrixControlNlMaxDesiredEntries Integer32,
    hlMatrixControlAlDroppedFrames Counter32,
    hlMatrixControlAlInserts   Counter32,
    hlMatrixControlAlDeletes   Counter32,
    hlMatrixControlAlMaxDesiredEntries Integer32,
    hlMatrixControlOwner       OwnerString,
    hlMatrixControlStatus      RowStatus
}

```

hlMatrixControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the hlMatrixControlTable. Each such entry defines a function that discovers conversations on a particular interface and places statistics about them in the nlMatrixSDTable and the nlMatrixDSTable, and optionally the alMatrixSDTable and alMatrixDSTable, on

behalf of this

hlMatrixControlEntry."

::= { hlMatrixControlEntry 1 }

hlMatrixControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of the data for the associated matrix tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated hlMatrixControlStatus object is equal to active(1)."

::= { hlMatrixControlEntry 2 }

hlMatrixControlNlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of

some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the nlMatrixTables are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { hlMatrixControlEntry 3 }

hlMatrixControlNlInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlMatrix entry has been inserted into the nlMatrix tables. If an entry is inserted,

then deleted, and then inserted, this counter will be incremented by 2. The addition of a conversation into both the nlMatrixSDTable and nlMatrixDSTable shall be counted as two insertions (even though every addition into one table must be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the sum of then nlMatrixSDTable and nlMatrixDSTable sizes can be determined by subtracting
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."

::= { hlMatrixControlEntry 4 }

hlMatrixControlNlDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlMatrix entry has been deleted from the nlMatrix tables (for any reason). If an entry is deleted, then inserted, and then deleted, this counter

will be incremented by 2. The deletion of a conversation from both the nlMatrixSDTable and nlMatrixDSTable shall be counted as two deletions (even though every deletion from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."

::= { hlMatrixControlEntry 5 }

hlMatrixControlNlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the nlMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number

of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlMatrixControlEntry 6 }

hlMatrixControlAllDroppedFrames 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 hlMatrixControlAlDeletes from hlMatrixControlAlInserts."

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

hlMatrixControlAlDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an alMatrix entry has been deleted from the alMatrix tables. If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2. The deletion of a conversation from both the alMatrixSDTable and alMatrixDSTable shall be counted as two deletions (even though every deletion from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note

that the table size can be determined by subtracting hlMatrixControlAlDeletes from hlMatrixControlAlInserts."

```
::= { hlMatrixControlEntry 9 }
```

hlMatrixControlAlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlMatrixControlEntry 10 }

hlMatrixControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { hlMatrixControlEntry 11 }

hlMatrixControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this hlMatrixControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixSDTable, nlMatrixDSTable, alMatrixSDTable, and alMatrixDSTable

shall be deleted by the agent."

::= { hlMatrixControlEntry 12 }

nlMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix entries that collect statistics for conversations between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all conversations from a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no

MAC errors and will increment

octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixDSTable with the same source address and destination address."

::= { nlMatrix 2 }

nlMatrixSDEntry OBJECT-TYPE

SYNTAX NlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

An example of the indexing of this table is

nlMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.

Note that some combinations of index values may result in an

index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { hlMatrixControlIndex, nlMatrixSDTimeMark,  
        protocolDirLocalIndex,  
        nlMatrixSDSourceAddress, nlMatrixSDDestAddress }  
::= { nlMatrixSDTable 1 }
```

```
NlMatrixSDEntry ::= SEQUENCE {  
    nlMatrixSDTimeMark      TimeFilter,  
    nlMatrixSDSourceAddress OCTET STRING,  
    nlMatrixSDDestAddress   OCTET STRING,  
    nlMatrixSDPkts          ZeroBasedCounter32,  
    nlMatrixSDOctets        ZeroBasedCounter32,  
    nlMatrixSDCreateTime    LastCreateTime  
}
```

nlMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

```
::= { nlMatrixSDEntry 1 }
```

nlMatrixSDSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network source address for this nlMatrixSDEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

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

```
::= { nlMatrixSDEntry 2 }
```

nlMatrixSDDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this
nlMatrixSDEntry.

This is represented as an octet string with
specific semantics and length as identified
by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an

encapsulation of IP, this object is encoded as a length
octet of 4, followed by the 4 octets of the IP address,
in network byte order."

::= { nlMatrixSDEntry 3 }

nlMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the
source address to the destination address since this entry was
added to the nlMatrixSDTable. Note that this is the number of
link-layer packets, so if a single network-layer packet is
fragmented into several link-layer frames, this counter is
incremented several times."

::= { nlMatrixSDEntry 4 }

nlMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to

the destination address since this entry was added to the
nlMatrixSDTable (excluding framing bits, but
including FCS octets), excluding octets in packets that
contained errors.

Note that this doesn't count just those octets in the particular
protocol frames but includes the entire packet that contained
the protocol."

::= { nlMatrixSDEntry 5 }

nlMatrixSDCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlMatrixSDEntry 6 }

-- Traffic matrix tables from destination to source

nlMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix

entries that collect statistics for

conversations between two network-level addresses. This table is indexed first by the destination address and then by the source address to make it convenient to collect all conversations to a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixSDTable with the same source address and destination

address."

::= { nlMatrix 3 }

nlMatrixDSEntry OBJECT-TYPE

SYNTAX NlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created.

The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixDSSourceAddress and nlMatrixDSDestAddress.

An example of the indexing of this table is

nlMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex, nlMatrixDSTimeMark,
protocolDirLocalIndex,

nlMatrixDSDestAddress,
nlMatrixDSSourceAddress }
::= { nlMatrixDSTable 1 }

NlMatrixDSEntry ::= SEQUENCE {
nlMatrixDSTimeMark TimeFilter,
nlMatrixDSSourceAddress OCTET STRING,
nlMatrixDSDestAddress OCTET STRING,
nlMatrixDSPkts ZeroBasedCounter32,
nlMatrixDSOctets ZeroBasedCounter32,
nlMatrixDSCreateTime LastCreateTime
}

nlMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { nlMatrixDSEntry 1 }

nlMatrixDSSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network source address for this nlMatrixDSEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

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

::= { nlMatrixDSEntry 2 }

nlMatrixDSDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this nlMatrixDSEntry.

This is represented as an octet string with specific semantics and length as identified

by the protocolDirLocalIndex component of the index.

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

::= { nlMatrixDSEntry 3 }

nlMatrixDSPkts

OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the source address to the destination address since this entry was added to the nlMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlMatrixDSEntry 4 }

nlMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to the destination address since this entry was added to the nlMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nlMatrixDSEntry 5 }

nlMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlMatrixDSEntry 6 }

nlMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a report of the top N matrix entries according to a selected metric."

::= { nlMatrix 4 }

nlMatrixTopNControlEntry OBJECT-TYPE

SYNTAX NlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row

in the nlMatrixTopNControlTable.

An example of the indexing of this table is

nlMatrixTopNControlDuration.3"

INDEX { nlMatrixTopNControlIndex }

::= { nlMatrixTopNControlTable 1 }

```
NlMatrixTopNControlEntry ::= SEQUENCE {
    nlMatrixTopNControlIndex      Integer32,
    nlMatrixTopNControlMatrixIndex Integer32,
    nlMatrixTopNControlRateBase   INTEGER,
    nlMatrixTopNControlTimeRemaining Integer32,
    nlMatrixTopNControlGeneratedReports Counter32,
    nlMatrixTopNControlDuration   Integer32,
    nlMatrixTopNControlRequestedSize Integer32,
    nlMatrixTopNControlGrantedSize Integer32,
    nlMatrixTopNControlStartTime  TimeStamp,
    nlMatrixTopNControlOwner      OwnerString,
    nlMatrixTopNControlStatus     RowStatus
}
```

nlMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry
in the nlMatrixTopNControlTable. Each such
entry defines one topN report prepared for
one interface."

::= { nlMatrixTopNControlEntry 1 }

nlMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The nlMatrix[SD/DS] table for which a topN report will be
prepared on behalf of this entry. The nlMatrix[SD/DS] table
is identified by the value of the hlMatrixControlIndex
for that table - that value is used here to identify the
particular table.

This object may not be modified if the associated
nlMatrixTopNControlStatus object is equal to active(1)."

::= { nlMatrixTopNControlEntry 2 }

nlMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {
 nlMatrixTopNPkts(1),
 nlMatrixTopNOctets(2),
 nlMatrixTopNHighCapacityPkts(3),
 nlMatrixTopNHighCapacityOctets(4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The variable for each nlMatrix[SD/DS] entry that the nlMatrixTopNEntries are sorted by, as well as a control for the table that the results will be reported in.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1).

If this value is less than or equal to 2, when the report is prepared, entries are created in the nlMatrixTopNTable associated with this object.

If this value is greater than or equal to 3, when the report is prepared, entries are created in the nlMatrixTopNHighCapacityTable associated with this object."

::= { nlMatrixTopNControlEntry 3 }

nlMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left in the report currently being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this

report and is immediately loaded into the associated nlMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of nlMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly,

checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value of this object is non-zero, it decrements by one per second until it reaches zero. At the time that this object decrements to zero, the report is made accessible in the nlMatrixTopNTable, overwriting any report that may be there.

When this object is modified by the management station, any associated entries in the nlMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used in the hostTopNTable)."

DEFVAL { 1800 }

::= { nlMatrixTopNControlEntry 4 }

nlMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

::= { nlMatrixTopNControlEntry 5 }

nlMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated nlMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same value and shall not be modified until the next time the nlMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this nlMatrixTopNControlEntry."

::= { nlMatrixTopNControlEntry 6 }

nlMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set nlMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }

::= { nlMatrixTopNControlEntry 7 }

nlMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When

the associated nlMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated nlMatrixTopNControlRequestedSize object.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, when the next topN report is generated, matrix entries with the highest value of nlMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, when the next topN report is generated, matrix entries with the highest value of nlMatrixTopNOctetRate shall be placed in this table in decreasing

order of this rate

until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of nlMatrixTopNPktRate or nlMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to

whether zero-valued entries are available."

::= { nlMatrixTopNControlEntry 8 }

nlMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was last started. In other words, this is the time that the associated nlMatrixTopNControlTimeRemaining object was modified to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."

::= { nlMatrixTopNControlEntry 9 }

nlMatrixTopNControlOwner

OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { nlMatrixTopNControlEntry 10 }

nlMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this nlMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixTopNTable shall be deleted by the agent."

::= { nlMatrixTopNControlEntry 11 }

nlMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of statistics for those network-layer matrix entries

that have

counted the highest number of octets or packets."

::= { nlMatrix 5 }

nlMatrixTopNEntry OBJECT-TYPE

SYNTAX NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixTopNTable.

The nlMatrixTopNControlIndex value in the index identifies the
nlMatrixTopNControlEntry on whose behalf this entry was
created.

An example of the indexing of this table is

nlMatrixTopNPktRate.3.10"

INDEX { nlMatrixTopNControlIndex, nlMatrixTopNIndex }

::= { nlMatrixTopNTable 1 }

NlMatrixTopNEntry ::= SEQUENCE {

nlMatrixTopNIndex Integer32,

nlMatrixTopNProtocolDirLocalIndex Integer32,

nlMatrixTopNSourceAddress OCTET STRING,

nlMatrixTopNDestAddress OCTET STRING,

nlMatrixTopNPktRate Gauge32,

nlMatrixTopNReversePktRate Gauge32,

nlMatrixTopNOctetRate Gauge32,

nlMatrixTopNReverseOctetRate

Gauge32

}

nlMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in
the nlMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the
number of entries in this report.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, increasing values of nlMatrixTopNIndex shall be assigned to entries with decreasing values of nlMatrixTopNPktRate until index N is assigned or there are no more nlMatrixTopNEntries.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, increasing values of nlMatrixTopNIndex

shall be assigned to entries with decreasing values of nlMatrixTopNOctetRate until index N is assigned or there are no more nlMatrixTopNEntries."

::= { nlMatrixTopNEntry 1 }

nlMatrixTopNProtocolDirLocalIndex

OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { nlMatrixTopNEntry 2 }

nlMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

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

::= { nlMatrixTopNEntry 3 }

nlMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET

STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

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

::= { nlMatrixTopNEntry 4 }

nlMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object.

If the value of nlMatrixTopNControlRateBase is nlMatrixTopNPkts,

this variable will be used to sort this report."

::= { nlMatrixTopNEntry 5 }

nlMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the destination host to the source host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object. (Note that the corresponding nlMatrixSDPkts object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal

to nlMatrixTopNPkts, the sort of topN entries is based entirely on nlMatrixTopNPktRate, and not on the value of this object."

::= { nlMatrixTopNEntry 6 }

nlMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDOctets object. If the value of nlMatrixTopNControlRateBase is nlMatrixTopNOctets, this variable will be used to sort this report."

::= { nlMatrixTopNEntry 7 }

nlMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen from the destination host to the source host during this sampling interval, counted using the rules for counting the nlMatrixDSOctets object. (Note that the corresponding nlMatrixSDOctets object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal

to nlMatrixTopNOctets, the sort of topN entries is based entirely on nlMatrixTopNOctetRate, and not on the value of this object."

::= { nlMatrixTopNEntry 8 }

-- Application Layer Functions

--

-- The application layer host, matrix, and matrixTopN functions report
-- on protocol usage at the network layer or higher. Note that the
-- use of the term application layer does not imply that only
-- application-layer protocols are counted, rather it means that
-- protocols up to and including the application layer are supported.

--
-- Application Layer Host Group
--
-- Counts the amount of traffic, by protocol, sent from and to each
-- network address discovered by the probe.
-- Implementation of this group requires implementation of the Network
-- Layer Host Group.

alHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A collection of statistics for a particular
protocol from a
particular network address that has been discovered on an
interface of this device.

The probe will populate this table for all protocols in the
protocol directory table whose value of
protocolDirHostConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses
seen as the source or destination address in all packets with
no MAC errors and will increment octet and packet counts in
the table for all packets with no MAC errors. Further,
entries will only be added to this table if their address
exists in the nlHostTable and will be deleted from this table
if their address is deleted from the nlHostTable."

::= { alHost 1 }

alHostEntry OBJECT-TYPE

SYNTAX AlHostEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A conceptual row in the alHostTable.

The hlHostControlIndex value in the index identifies the
hlHostControlEntry on whose behalf this entry was created.
The first protocolDirLocalIndex value in the index identifies
the network-layer protocol of the address.

The nlHostAddress value in the index identifies the network-layer address of this entry.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing in this entry is
alHostOutPkts.1.783495.18.4.128.2.6.6.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { hlHostControlIndex, alHostTimeMark,  
        protocolDirLocalIndex,  
nlHostAddress,  
        protocolDirLocalIndex }  
::= { alHostTable 1 }
```

```
AlHostEntry ::= SEQUENCE {  
    alHostTimeMark      TimeFilter,  
    alHostInPkts        ZeroBasedCounter32,  
    alHostOutPkts       ZeroBasedCounter32,  
    alHostInOctets      ZeroBasedCounter32,  
    alHostOutOctets     ZeroBasedCounter32,  
    alHostCreateTime    LastCreateTime  
}
```

alHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alHostEntry 1 }

alHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted to this address since it was added to the alHostTable. Note that this is the number

of link-layer

packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 2 }

alHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted by this address since it was added to the alHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 3 }

alHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address of this protocol type since it was added to the alHostTable (excluding framing bits, but

including

FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 4 }

alHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address of this protocol type since it was added to the alHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 5 }

alHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value

of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alHostEntry 6 }

--

-- Application Layer Matrix Group

--

-- Counts the amount of traffic, by protocol, sent between each pair

-- of network addresses discovered by the probe.

-- Implementation of this group requires implementation of the Network

-- Layer Matrix Group.

alMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all statistics from a particular address.

The probe will populate
this table for all protocols in the
protocol directory table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for

all protocols seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address pair exists in the nlMatrixSDTable and will be deleted from this table if the address pair is deleted from the nlMatrixSDTable."

::= { alMatrix 1 }

alMatrixSDEntry OBJECT-TYPE

SYNTAX AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the

hlMatrixControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

The nlMatrixSDSourceAddress value in the index identifies the network-layer address of the source host in this conversation.

The nlMatrixSDDestAddress value in the index identifies the network-layer address of the destination host in this conversation.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing of this entry is

alMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

INDEX { hlMatrixControlIndex, alMatrixSDTimeMark,
protocolDirLocalIndex,
nlMatrixSDSourceAddress, nlMatrixSDDestAddress,
protocolDirLocalIndex }

::= { alMatrixSDTable 1 }

AlMatrixSDEntry ::= SEQUENCE {

alMatrixSDTimeMark TimeFilter,

alMatrixSDPkts	ZeroBasedCounter32,
alMatrixSDOctets	ZeroBasedCounter32,
alMatrixSDCreateTime	LastCreateTime

}

alMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alMatrixSDEntry 1 }

alMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted

from the source address to the destination address

since this entry was added to the alMatrixSDTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alMatrixSDEntry 2 }

alMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixSDEntry 3 }

alMatrixSDCreateTime

OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.
This can be used by the management station to ensure that the
entry has not been deleted and recreated between polls."

::= { alMatrixSDEntry 4 }

-- Traffic matrix tables from destination to source

alMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect
statistics for conversations of a particular protocol between
two network-level addresses. This table is indexed first by
the destination address and then by the source address to make
it convenient to collect all statistics to a particular
address.

The probe will populate this table for all protocols in the
protocol directory

table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for
all protocols seen in all packets with no MAC errors and will
increment octet and packet counts in the table for all packets
with no MAC errors. Further, entries will only be added to
this table if their address pair exists in the nlMatrixDSTable
and will be deleted from this table if the address pair is
deleted from the nlMatrixDSTable."

::= { alMatrix 2 }

alMatrixDSEntry OBJECT-TYPE

SYNTAX AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the

hlMatrixControlEntry on whose behalf
this entry was created.

The first protocolDirLocalIndex value in the index identifies
the network-layer protocol of the alMatrixDSSourceAddress and
alMatrixDSDestAddress.

The nlMatrixDSDestAddress value in the index identifies the
network-layer address of the destination host in this

conversation.

The nlMatrixDSSourceAddress value in the index identifies the
network-layer address of the source host in this conversation.

The second protocolDirLocalIndex value in the index identifies
the protocol that is counted by this entry.

An example of the indexing of this entry is

alMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.34.

Note that some combinations of index values may result in an
index that exceeds 128 sub-identifiers in length, which exceeds
the maximum for the SNMP protocol. Implementations should take
care to avoid such combinations."

```
INDEX { hlMatrixControlIndex,  
alMatrixDSTimeMark,  
    protocolDirLocalIndex,  
    nlMatrixDSDestAddress, nlMatrixDSSourceAddress,  
    protocolDirLocalIndex }  
::= { alMatrixDSTable 1 }
```

```
AlMatrixDSEntry ::= SEQUENCE {  
    alMatrixDSTimeMark      TimeFilter,  
    alMatrixDSPkts          ZeroBasedCounter32,  
    alMatrixDSOctets        ZeroBasedCounter32,  
    alMatrixDSCreateTime    LastCreateTime  
}
```

alMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual
convention to see how this works."

::= { alMatrixDSEntry 1 }

alMatrixDSPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted from the source address to the destination address

since this entry was added to the alMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alMatrixDSEntry 2 }

alMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixDSEntry 3 }

alMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alMatrixDSEntry 4 }

alMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a

report of the top N matrix entries according to
a selected metric."
::= { alMatrix 3 }

alMatrixTopNControlEntry OBJECT-TYPE

SYNTAX AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNControlTable.

An example of the indexing of this table is

alMatrixTopNControlDuration.3"

INDEX { alMatrixTopNControlIndex }

::= { alMatrixTopNControlTable 1 }

AlMatrixTopNControlEntry

::= SEQUENCE {

alMatrixTopNControlIndex Integer32,
alMatrixTopNControlMatrixIndex Integer32,
alMatrixTopNControlRateBase INTEGER,
alMatrixTopNControlTimeRemaining Integer32,
alMatrixTopNControlGeneratedReports Counter32,
alMatrixTopNControlDuration Integer32,
alMatrixTopNControlRequestedSize Integer32,
alMatrixTopNControlGrantedSize Integer32,
alMatrixTopNControlStartTime TimeStamp,
alMatrixTopNControlOwner OwnerString,
alMatrixTopNControlStatus RowStatus

}

alMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry
in the alMatrixTopNControlTable. Each such
entry defines one topN report prepared for
one interface."

::= { alMatrixTopNControlEntry 1 }

alMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The alMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The alMatrix[SD/DS] table is identified by the value of the hlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

::= { alMatrixTopNControlEntry 2 }

alMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {

alMatrixTopNTerminalsPkts(1),
alMatrixTopNTerminalsOctets(2),
alMatrixTopNAllPkts(3),
alMatrixTopNAllOctets(4),
alMatrixTopNTerminalsHighCapacityPkts(5),
alMatrixTopNTerminalsHighCapacityOctets(6),

alMatrixTopNAllHighCapacityPkts(7),

alMatrixTopNAllHighCapacityOctets(8)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object controls which alMatrix[SD/DS] entry that the alMatrixTopNEntries are sorted by, which view of the matrix table that will be used, as well as which table the results will be reported in.

The values alMatrixTopNTerminalsPkts, alMatrixTopNTerminalsOctets, alMatrixTopNTerminalsHighCapacityPkts, and alMatrixTopNTerminalsHighCapacityOctets cause collection only from protocols that have no child protocols that are counted. The values alMatrixTopNAllPkts, alMatrixTopNAllOctets, alMatrixTopNAllHighCapacityPkts, and alMatrixTopNAllHighCapacityOctets cause collection from all alMatrix entries.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

::= { alMatrixTopNControlEntry

alMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left in the report currently being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this report and is immediately loaded into the associated alMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of alMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly, checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value of this object is non-zero, it decrements by one per second until it reaches zero. At the time

that this object decrements to zero, the report is made accessible in the alMatrixTopNTable, overwriting any report that may be there.

When this object is modified by the management station, any associated entries in the alMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used in the hostTopNTable)."

DEFVAL { 1800 }

::= { alMatrixTopNControlEntry 4 }

alMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

::= { alMatrixTopNControlEntry 5 }

alMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated alMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same value and shall not be modified until the next time the alMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this alMatrixTopNControlEntry."

::= { alMatrixTopNControlEntry 6 }

alMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set alMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }

::= { alMatrixTopNControlEntry 7 }

alMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When the associated alMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated

alMatrixTopNControlRequestedSize object.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNOctetRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of alMatrixTopNPktRate or alMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to whether zero-valued entries are available."

::= { alMatrixTopNControlEntry 8 }

alMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was last started. In other words, this is the time that the associated alMatrixTopNControlTimeRemaining object was modified

to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."

::= { alMatrixTopNControlEntry 9 }

alMatrixTopNControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { alMatrixTopNControlEntry 10 }

alMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this alMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the alMatrixTopNTable shall be deleted by the agent."

::= { alMatrixTopNControlEntry
11 }

alMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of statistics for those application-layer matrix entries that have counted the highest number of octets or packets."

::= { alMatrix 4 }

alMatrixTopNEntry OBJECT-TYPE

SYNTAX AlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNTable.

The alMatrixTopNControlIndex value in the index identifies the alMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is
alMatrixTopNPktRate.3.10"

INDEX { alMatrixTopNControlIndex, alMatrixTopNIndex }

::= { alMatrixTopNTable 1 }

AlMatrixTopNEntry ::= SEQUENCE {

alMatrixTopNIndex Integer32,

```

alMatrixTopNProtocolDirLocalIndex  Integer32,

alMatrixTopNSourceAddress           OCTET STRING,
alMatrixTopNDestAddress             OCTET STRING,
alMatrixTopNAppProtocolDirLocalIndex Integer32,
alMatrixTopNPktRate                 Gauge32,
alMatrixTopNReversePktRate          Gauge32,
alMatrixTopNOctetRate               Gauge32,
alMatrixTopNReverseOctetRate        Gauge32
}

```

alMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the alMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the number of entries in this report.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNPktRate until index N is

assigned or there are no more alMatrixTopNEntries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNOctetRate until index N is assigned or there are no more alMatrixTopNEntries."

::= { alMatrixTopNEntry 1 }

alMatrixTopNProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { alMatrixTopNEntry 2 }

alMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

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

::= { alMatrixTopNEntry 3 }

alMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

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

::= { alMatrixTopNEntry 4 }

alMatrixTopNAppProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of the protocol counted by this matrix entry."

::= { alMatrixTopNEntry 5 }

alMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting the alMatrixSDPkts object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, this variable will be used to sort this report."

::= { alMatrixTopNEntry 6 }

alMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSPkts object. (Note that the corresponding alMatrixSDPkts object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, the sort of topN entries is based entirely on alMatrixTopNPktRate, and not on the value of this object."

::= { alMatrixTopNEntry 7 }

alMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting the alMatrixSDOctets object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, this

variable will be used to sort this report."
::= { alMatrixTopNEntry 8 }

alMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSOctets object. (Note that the corresponding alMatrixSDOctets object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, the sort of topN entries is based

entirely on

alMatrixTopNOctetRate, and not on the value of this object."

::= { alMatrixTopNEntry 9 }

--

-- User History Collection Group (usrHistory)

--

-- The usrHistory group combines mechanisms seen in the alarm and history groups to provide user-specified history collection, utilizing two additional control tables and one additional data table. This function has traditionally been done by NMS applications, via periodic polling. The usrHistory group allows this task to be offloaded to an RMON probe.

--

-- Data (an ASN.1 INTEGER based object) is collected in the same manner as any history data table (e.g., etherHistoryTable) except that the user specifies the MIB instances to be collected. Objects are collected in bucket-groups, with the intent that all MIB instances in the same bucket-group are collected as atomically as possible by the RMON probe.

--

-- The usrHistoryControlTable is a one-dimensional read-create table. Each row configures a collection of user history buckets, much the same as a historyControlEntry, except that the creation of a row in this table will cause one or more associated instances in

- the usrHistoryObjectTable to be created. The user specifies the
- number of bucket elements (rows in the usrHistoryObjectTable)
- requested, as well as the number of buckets requested.
-
- The usrHistoryObjectTable is a 2-d read-write table.
- Each row configures a single MIB instance to be collected.
- All rows with the same major index constitute a bucket-group.
-
- The usrHistoryTable is a 3-d read-only table containing
-
- the data of associated usrHistoryControlEntries. Each
- entry represents the value of a single MIB instance
- during a specific sampling interval (or the rate of
- change during the interval).
-
- A sample value is stored in two objects - an absolute value and
- a status object. This allows numbers from -(2G-1) to +4G to be
- stored. The status object also indicates
- whether a sample is
- valid. This allows data collection to continue if periodic
- retrieval of a particular instance fails for any reason.
-
- Row Creation Order Relationships
-
- The static nature of the usrHistoryObjectTable creates
- some row creation/modification issues. The rows in this
- table need to be set before the associated
- usrHistoryControlEntry can be activated.
-
- Note that the usrHistoryObject entries associated with a
- particular usrHistoryControlEntry are not required to
- be active before the control entry is activated. However,
- the usrHistory data entries associated with an inactive
- usrHistoryObject entry will be inactive (i.e.,
- usrHistoryValStatus == valueNotAvailable).
-

usrHistoryControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of data-collection configuration entries."

::= { usrHistory 1 }

usrHistoryControlEntry OBJECT-TYPE

SYNTAX UsrHistoryControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of parameters that set up a group of user-defined MIB objects to be sampled periodically (called a bucket-group).

For example, an instance of usrHistoryControlInterval might be named usrHistoryControlInterval.1"

INDEX { usrHistoryControlIndex }

::= { usrHistoryControlTable 1 }

```
UsrHistoryControlEntry ::= SEQUENCE {  
    usrHistoryControlIndex      Integer32,  
    usrHistoryControlObjects     Integer32,  
    usrHistoryControlBucketsRequested Integer32,  
    usrHistoryControlBucketsGranted Integer32,  
    usrHistoryControlInterval    Integer32,  
    usrHistoryControlOwner       OwnerString,  
    usrHistoryControlStatus      RowStatus  
}
```

usrHistoryControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the usrHistoryControlTable. Each such entry defines a set of samples at a particular interval for a specified set of MIB instances available from the managed system."

::= { usrHistoryControlEntry 1 }

usrHistoryControlObjects OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of MIB objects to be collected in the portion of usrHistoryTable associated with this usrHistoryControlEntry.

This object may not be modified if the associated instance

of usrHistoryControlStatus is equal to active(1)."
::= { usrHistoryControlEntry 2 }

usrHistoryControlBucketsRequested OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The requested number of discrete time intervals over which data is to be saved in the part of the usrHistoryTable associated with this usrHistoryControlEntry.

When this object is created or modified, the probe should set usrHistoryControlBucketsGranted as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 50 }

::= { usrHistoryControlEntry 3 }

usrHistoryControlBucketsGranted OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of discrete sampling intervals over which data shall be saved in the part of the usrHistoryTable associated with this usrHistoryControlEntry.

When the associated usrHistoryControlBucketsRequested object is created or modified, the probe should set this object as closely to the requested value as possible for the particular probe implementation and available resources. The probe must not lower this value except as a result of a modification to the associated usrHistoryControlBucketsRequested object.

The associated usrHistoryControlBucketsRequested object should be set before or at the same time as this object to allow the probe to accurately estimate the resources required for this usrHistoryControlEntry.

There will be times when the actual number of buckets associated with this entry is less than the value of this object. In this case, at the end of each sampling

interval, a new bucket will be added to the usrHistoryTable.

When the number of buckets reaches the value of this object and a new bucket is to be added to the usrHistoryTable, the oldest bucket associated with this usrHistoryControlEntry shall be deleted by the agent so that the new bucket can be added.

When the value of this object changes to a value less than the current value, entries are deleted from the usrHistoryTable associated with this usrHistoryControlEntry.

Enough of the oldest of these entries shall be deleted by the agent so that their number remains less than or equal to the new value of this object.

When the value of this object changes to a value greater than the current value, the number of associated usrHistory entries may be allowed to grow."

::= { usrHistoryControlEntry 4 }

usrHistoryControlInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interval in seconds over which the data is sampled for each bucket in the part of the usrHistory table associated with this usrHistoryControlEntry.

Because the counters in a bucket may overflow at their maximum value with no indication, a prudent manager will take into account the possibility of overflow in any of the associated counters. It is important to consider the

minimum time in which any counter could overflow on a particular media type and to set the usrHistoryControlInterval object to a value less than this interval.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

DEFVAL { 1800 }

::= { usrHistoryControlEntry 5 }

usrHistoryControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is
therefore using the resources assigned to it."

::= { usrHistoryControlEntry 6 }

usrHistoryControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this variable history control entry.

An entry may not exist in the active state unless all
objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated
entries

in the usrHistoryTable shall be deleted."

::= { usrHistoryControlEntry 7 }

-- Object table

usrHistoryObjectTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of data-collection configuration entries."

::= { usrHistory 2 }

usrHistoryObjectEntry OBJECT-TYPE

SYNTAX UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of MIB instances to be sampled periodically.

Entries in this table are created when an associated
usrHistoryControlObjects object is created.

The usrHistoryControlIndex value in the index is
that of the associated usrHistoryControlEntry.

For example, an instance of usrHistoryObjectVariable might be
usrHistoryObjectVariable.1.3"

```
INDEX { usrHistoryControlIndex, usrHistoryObjectIndex }  
::= { usrHistoryObjectTable 1 }
```

```
UsrHistoryObjectEntry ::= SEQUENCE {
```

```
    usrHistoryObjectIndex      Integer32,  
    usrHistoryObjectVariable   OBJECT IDENTIFIER,  
    usrHistoryObjectSampleType INTEGER  
}
```

```
usrHistoryObjectIndex OBJECT-TYPE
```

```
SYNTAX Integer32 (1..65535)
```

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

```
STATUS current
```

```
DESCRIPTION
```

"An index used to uniquely identify an entry in the
usrHistoryObject table. Each such entry defines a
MIB instance to be collected periodically."

```
::= { usrHistoryObjectEntry 1 }
```

```
usrHistoryObjectVariable OBJECT-TYPE
```

```
SYNTAX OBJECT IDENTIFIER
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The object identifier of the particular variable to be

sampled.

Only variables that resolve to an ASN.1 primitive type of
Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be
sampled.

Because SNMP access control is articulated entirely in terms
of the contents of MIB views, no access control mechanism

exists that can restrict the value of this object to identify
only those objects that exist in a particular MIB view.
Because there is thus no acceptable means of restricting the
read access that could be obtained through the user history
mechanism, the probe must only grant write access to this
object in those views that have read access to all objects on

the probe. See USM [RFC3414] and VACM [RFC3415] for more information.

During a set operation, if the supplied variable name is not available in the selected MIB view, a badValue error must be returned.

This object may not be modified if the associated
usrHistoryControlStatus object is equal to active(1)."

::= { usrHistoryObjectEntry 2 }

usrHistoryObjectSampleType OBJECT-TYPE

SYNTAX INTEGER {
 absoluteValue(1),
 deltaValue(2)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The method of sampling the selected variable for storage in
the usrHistoryTable.

If the value of this object is absoluteValue(1), the value of
the selected variable will be copied directly into the history
bucket.

If the value of this object is deltaValue(2), the value of the
selected variable at the last sample will be subtracted from
the current value, and the difference will be stored in the
history bucket. If the associated usrHistoryObjectVariable
instance could not be obtained at the previous sample
interval, then a delta sample is not possible, and the value
of the associated usrHistoryValStatus object for this interval
will be valueNotAvailable(1).

This object may not be modified if the associated
usrHistoryControlStatus object is equal to active(1)."

::= { usrHistoryObjectEntry 3 }

-- data table

usrHistoryTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of user-defined history entries."
::= { usrHistory 3 }

usrHistoryEntry OBJECT-TYPE

SYNTAX UsrHistoryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A historical sample of user-defined variables. This sample is associated with the usrHistoryControlEntry that set up the parameters for a regular collection of these samples.

The usrHistoryControlIndex value in the index identifies the usrHistoryControlEntry on whose behalf this entry was created.

The usrHistoryObjectIndex value in the index identifies the usrHistoryObjectEntry on whose behalf this entry was created.

For example, an instance of usrHistoryAbsValue, which represents the 14th sample of a variable collected as specified by usrHistoryControlEntry.1 and usrHistoryObjectEntry.1.5, would be named usrHistoryAbsValue.1.14.5"

INDEX { usrHistoryControlIndex, usrHistorySampleIndex,
usrHistoryObjectIndex }

::= { usrHistoryTable 1 }

UsrHistoryEntry ::= SEQUENCE {
usrHistorySampleIndex Integer32,
usrHistoryIntervalStart TimeStamp,
usrHistoryIntervalEnd TimeStamp,
usrHistoryAbsValue Gauge32,
usrHistoryValStatus INTEGER
}

usrHistorySampleIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies the particular sample this entry represents among all samples associated with the same usrHistoryControlEntry. This index starts at 1 and increases by one as each new sample is taken."

::= { usrHistoryEntry 1 }

usrHistoryIntervalStart OBJECT-TYPE

SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of sysUpTime at the start of the interval over which this sample was measured. If the probe keeps track of the time of day, it should start the first sample of the history at a time such that when the next hour of the day begins, a sample is started at that instant.

Note that following this rule may require that the probe delay collecting the first sample of the history, as each sample must be of the same interval. Also note that the sample that is currently being collected is not accessible in this table until the end of its interval."

::= { usrHistoryEntry 2 }

usrHistoryIntervalEnd OBJECT-TYPE

SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of sysUpTime at the end of the interval over which this sample was measured."

::= { usrHistoryEntry 3 }

usrHistoryAbsValue OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The absolute value (i.e., unsigned value) of the

user-specified statistic during the last sampling period. The value during the current sampling period is not made available until the period is completed.

To obtain the true value for this sampling interval, the associated instance of usrHistoryValStatus must be checked, and usrHistoryAbsValue adjusted as necessary.

If the MIB instance could not be accessed during the sampling interval, then this object will have a value of zero, and the associated instance of usrHistoryValStatus will be set to

'valueNotAvailable(1)'.

The access control check prescribed in the definition of `usrHistoryObjectVariable` SHOULD be checked for each sampling interval. If this check determines that access should not be allowed, then this object will have a value of zero, and the associated instance of `usrHistoryValStatus` will be set to 'valueNotAvailable(1)'."

```
::= { usrHistoryEntry
4 }
```

`usrHistoryValStatus` OBJECT-TYPE

```
SYNTAX INTEGER {
    valueNotAvailable(1),
    valuePositive(2),
    valueNegative(3)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the validity and sign of the data in the associated instance of `usrHistoryAbsValue`.

If the MIB instance could not be accessed during the sampling interval, then 'valueNotAvailable(1)' will be returned.

If the sample is valid and the actual value of the sample is greater than or equal to zero, then 'valuePositive(2)' is returned.

If the sample is valid and the actual value of the sample is less than zero, 'valueNegative(3)' will be returned. The associated instance of `usrHistoryAbsValue` should be multiplied by -1 to obtain the true sample value."

```
::= { usrHistoryEntry 5 }
```

-- The Probe Configuration Group

--

-- This group controls the configuration of various operating

--

parameters of the probe.

`ControlString` ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used to communicate with a modem or a

serial data switch. A ControlString contains embedded commands to control how the device will interact with the remote device through the serial interface. Commands are represented as two-character sequences beginning with the '^' character.

The following commands are recognized by the device (note that command characters are case sensitive):

- ^s Send string that follows, which is terminated by the next command or the end of string.
- ^c Delay for the number of seconds that follows. Toss out any data received rather than store it in a buffer for parsing.
- ^t Set timeout to the value represented by the decimal digits that follow. The default timeout is 20

seconds. Note that this timeout may be overridden by a smaller serialTimeout configured for the associated serial interface (see serialConfigTable).

- ^w Wait for the reply string that follows, which is terminated by the next command or the end of string. Partial and case-insensitive matching is applied, i.e., if the reply string (any case combination) is found anywhere in the received string, then the a match is found. If the current timeout elapses without a match, then the remaining control string is ignored.
- ^! The ^ character.
- ^d Delay the number of seconds specified by the decimal digits that follow.
- ^b Send break for the number of milliseconds specified by the decimal digits that follow. If no digits follow, break will be enforced for 250 milliseconds by default.

The following ASCII control characters may be inserted into the '^s' send string or the '^w' reply string:

- ^@ 0x00
- ^A 0x01
- ..
- ^M 0x0D
- ..
- ^Z 0x1A
- ^[0x1B
- ^ 0x1C
- ^] 0x1D

^^ 0x1E

^_ 0x1F

Binary data may also be inserted into the data stream. The control sequence for each byte of binary data is ^0x##, where ## is the hexadecimal representation of the data byte. Two ASCII characters (0-9, a-f, A-F) must follow the '^0x' control prefix. For example, '^0x0D^0x0A' is interpreted as a carriage return followed by a line feed."

SYNTAX OCTET STRING (SIZE (0..255))

probeCapabilities OBJECT-TYPE

SYNTAX BITS {

etherStats(0),
historyControl(1),
etherHistory(2),
alarm(3),
hosts(4),
hostTopN(5),
matrix(6),
filter(7),
capture(8),
event(9),
tokenRingMLStats(10),
tokenRingPStats(11),
tokenRingMLHistory(12),
tokenRingPHistory(13),
ringStation(14),
ringStationOrder(15),
ringStationConfig(16),
sourceRouting(17),
protocolDirectory(18),
protocolDistribution(19),
addressMapping(20),
nlHost(21),
nlMatrix(22),
alHost(23),
alMatrix(24),
usrHistory(25),
probeConfig(26)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An indication of the RMON MIB groups supported

on at least one interface by this probe."
::= { probeConfig 1 }

probeSoftwareRev OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..15))
MAX-ACCESS read-only

STATUS current
DESCRIPTION
"The software revision of this device. This string will have
a zero length if the revision is unknown."
::= { probeConfig 2 }

probeHardwareRev
OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..31))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The hardware revision of this device. This string will have
a zero length if the revision is unknown."
::= { probeConfig 3 }

probeDateTime OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (0 | 8 | 11))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Probe's current date and time.

field	octets	contents	range
-----	-----	-----	-----
1	1-2	year	0..65536
2	3	month	1..12
3	4	day	1..31
4	5	hour	0..23
5	6	minutes	0..59
6	7	seconds	0..60
		(use 60 for leap-second)	
7	8	deci-seconds	0..9
8	9	direction from UTC	'+' / '-'
9	10	hours from UTC	0..11
10	11	minutes from UTC	0..59

For example, Tuesday May 26, 1992 at 1:30:15 PM

EDT would be displayed as:

1992-5-26,13:30:15.0,-4:0

Note that if only local time is known, then time zone information (fields 8-10) is not present, and that if no time information is known, the null string is returned."

::= { probeConfig 4 }

probeResetControl OBJECT-TYPE

```
SYNTAX  INTEGER {  
    running(1),  
    warmBoot(2),  
    coldBoot(3)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to warmBoot(2) causes the device to restart the application software with current configuration parameters saved in non-volatile memory. Setting this

object to coldBoot(3) causes the device to reinitialize configuration parameters in non-volatile memory to default values and to restart the application software. When the device is running normally, this variable has a value of running(1)."

::= { probeConfig 5 }

-- The following download objects do not restrict an implementation
-- from implementing additional download mechanisms (controlled in an
-- implementation-specific manner). Further, in the case where the RMON
-- agent shares a processor with other types of systems, the
-- implementation is not required to download those non-RMON functions
-- with this mechanism.

probeDownloadFile OBJECT-TYPE

```
SYNTAX  DisplayString (SIZE(0..127))
```

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The file name to be downloaded from the TFTP server when a download is next requested via this MIB. This value is set to

the zero-length string when no file name
has been specified.

This object has been deprecated, as it has not had enough
independent implementations to demonstrate interoperability to
meet the requirements of a Draft Standard."

::= { probeConfig 6 }

probeDownloadTFTPServer OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP address of the TFTP server that contains the boot
image to load when a download is next requested via this MIB.
This value is set to '0.0.0.0' when no IP address has been

specified.

This object has been deprecated, as it has not had enough
independent implementations to demonstrate interoperability to
meet the requirements of a Draft Standard."

::= { probeConfig 7 }

probeDownloadAction OBJECT-TYPE

SYNTAX INTEGER {
notDownloading(1),
downloadToPROM(2),
downloadToRAM(3)
}

MAX-ACCESS

read-write

STATUS deprecated

DESCRIPTION

"When this object is set to downloadToRAM(3) or
downloadToPROM(2), the device will discontinue its
normal operation and begin download of the image specified
by probeDownloadFile from the server specified by
probeDownloadTFTPServer using the TFTP protocol. If
downloadToRAM(3) is specified, the new image is copied
to RAM only (the old image remains unaltered in the flash
EPROM). If downloadToPROM(2) is specified,
the new image is written to the flash EPROM
memory after its checksum has been verified to be correct.
When the download process is completed, the device will
warm boot to restart the newly loaded application.

When the device is not downloading, this object will have a value of notDownloading(1).

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."
::= { probeConfig 8 }

probeDownloadStatus OBJECT-TYPE

SYNTAX INTEGER {
 downloadSuccess(1),
 downloadStatusUnknown(2),
 downloadGeneralError(3),
 downloadNoResponseFromServer(4),
 downloadChecksumError(5),
 downloadIncompatibleImage(6),
 downloadTftpFileNotFound(7),
 downloadTftpAccessViolation(8)
}

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The status of the last download procedure, if any. This object will have a value of downloadStatusUnknown(2) if no download process has been performed.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 9 }

serialConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of serial interface configuration entries. This data will be stored in non-volatile memory and preserved across probe resets or power loss.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 10 }

serialConfigEntry OBJECT-TYPE

SYNTAX SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular serial interface on this device. If the device has no serial interfaces, this table is empty.

The index is composed of the ifIndex assigned to this serial line interface."

INDEX { ifIndex }

::=

{ serialConfigTable 1 }

SerialConfigEntry ::= SEQUENCE {

serialMode INTEGER,

serialProtocol INTEGER,

serialTimeout Integer32,

serialModemInitString ControlString,

serialModemHangUpString ControlString,

serialModemConnectResp DisplayString,

serialModemNoConnectResp DisplayString,

serialDialoutTimeout Integer32,

serialStatus RowStatus

}

serialMode OBJECT-TYPE

SYNTAX INTEGER {

direct(1),

modem(2)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of incoming connection to be expected on this serial interface."

DEFVAL { direct }

::= { serialConfigEntry 1 }

serialProtocol OBJECT-TYPE

SYNTAX INTEGER {

other(1),

slip(2),

```

        ppp(3)
    }
MAX-ACCESS read-create
STATUS
    deprecated
DESCRIPTION
    "The type of data link encapsulation to be used on this
    serial interface."
DEFVAL { slip }
::= { serialConfigEntry 2 }

```

serialTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the Management Station has initiated the conversation over the serial link. This variable represents the number of seconds of inactivity allowed before terminating the connection on this serial interface. Use the serialDialoutTimeout in the case where the probe has initiated the connection for the purpose of sending a trap."

DEFVAL { 300 }

::= { serialConfigEntry 3 }

serialModemInitString OBJECT-TYPE

SYNTAX ControlString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that controls how a modem attached to this

serial interface should be initialized. The initialization is performed once during startup and again after each connection is terminated if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^s^MATE0Q0V1X4 S0=1 S2=43^M'."

::= { serialConfigEntry 4 }

serialModemHangUpString OBJECT-TYPE

SYNTAX ControlString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to disconnect a modem connection on this serial interface. This object is only meaningful if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^d2^s+++^d2^sATH0^M^d2'."

::= { serialConfigEntry 5 }

serialModemConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"An ASCII string containing substrings that describe the expected modem connection response code and associated bps rate. The substrings are delimited by the first character in the string, for example:

```
/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/  
CONNECT 4800/4800/CONNECT 9600/9600
```

will be interpreted as:

response code	bps rate
CONNECT	300
CONNECT 1200	1200
CONNECT 2400	2400
CONNECT 4800	4800
CONNECT 9600	9600

The agent will use the information in this string to adjust the bps rate of this serial interface once a modem connection is established.

A value that is appropriate for a wide variety of modems is:

```
'/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/  
CONNECT 4800/4800/CONNECT 9600/9600/CONNECT 14400/14400/  
CONNECT  
19200/19200/CONNECT 38400/38400/'."  
::= { serialConfigEntry 6 }
```

serialModemNoConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"An ASCII string containing response codes that may be generated by a modem to report the reason why a connection attempt has failed. The response codes are delimited by the first character in the string, for example:

/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/

If one of these response codes is received via this serial interface while attempting to make a modem connection, the agent will issue the hang up command as specified by serialModemHangUpString.

A value that is appropriate for a wide variety of modems is:

'/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/'."

::= { serialConfigEntry 7 }

serialDialoutTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the probe initiates the serial connection with the intention of contacting a management station. This variable represents the number of seconds of inactivity allowed before terminating the connection on this serial interface."

DEFVAL { 20 }

::= { serialConfigEntry 8 }

serialStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

::= { serialConfigEntry 9 }

netConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of netConfigEntries.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."
::= { probeConfig 11 }

netConfigEntry OBJECT-TYPE

SYNTAX NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular network interface on this device. If the device has no network interface, this table is empty.

The index is composed of the ifIndex assigned to the corresponding interface."

INDEX { ifIndex }

::= { netConfigTable 1 }

NetConfigEntry ::= SEQUENCE {

netConfigIPAddress IpAddress,

netConfigSubnetMask IpAddress,

netConfigStatus RowStatus

}

netConfigIPAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP address of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on the network, this value must be configured (e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 1 }

netConfigSubnetMask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The subnet mask of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on

the network, this value must be configured

(e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 2 }

netConfigStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this netConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

::= { netConfigEntry 3 }

netDefaultGateway OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP Address of the default gateway. If this value is undefined or unknown, it shall have the value 0.0.0.0."

::= { probeConfig 12 }

-- Trap Destination Table

--

-- This table defines the destination addresses for traps generated

-- from the device. This table maps a community to one or more trap destination entries.

--

-- The same trap will be sent to all destinations specified in the entries that have the same trapDestCommunity as the eventCommunity (as defined by RMON MIB), as long as no access control mechanism (e.g., VACM) prohibits sending to one or more of the destinations. Information in this table will be stored in non-volatile memory.

-- If the device has gone through a hard restart, this information
-- will be reset to its default state.

trapDestTable OBJECT-TYPE
SYNTAX SEQUENCE OF TrapDestEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"A list of trap destination entries."
::= { probeConfig 13 }

trapDestEntry OBJECT-TYPE
SYNTAX TrapDestEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"This entry includes a destination IP address to which
traps are sent for this community."
INDEX { trapDestIndex }
::= { trapDestTable 1 }

TrapDestEntry ::= SEQUENCE {
trapDestIndex Integer32,
trapDestCommunity OCTET STRING,
trapDestProtocol INTEGER,
trapDestAddress OCTET STRING,
trapDestOwner OwnerString,
trapDestStatus RowStatus
}

trapDestIndex OBJECT-TYPE
SYNTAX Integer32 (1..65535)
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"A value that uniquely identifies this trapDestEntry."
::= { trapDestEntry 1 }

trapDestCommunity OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..127))
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"A community to which this destination address belongs.
This entry is associated with any eventEntries in the RMON

MIB whose value of eventCommunity is equal to the value of this object. Every time an associated event entry sends a

trap due to an event, that trap will be sent to each

address in the trapDestTable with a trapDestCommunity equal to eventCommunity, as long as no access control mechanism precludes it (e.g., VACM).

This object may not be modified if the associated trapDestStatus object is equal to active(1)."

::= { trapDestEntry 2 }

trapDestProtocol OBJECT-TYPE

SYNTAX INTEGER {

ip(1),

ipx(2)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The protocol with which this trap is to be sent."

::= { trapDestEntry 3 }

trapDestAddress OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The destination address for traps on behalf of this entry.

If the associated trapDestProtocol object is equal to ip(1), the encoding of this object is the same as the snmpUDPAddress textual

convention in RFC 3417, 'Transport Mappings for the

Simple Network Management Protocol (SNMP)' [RFC3417]:

-- for a SnmpUDPAddress of length 6:

--

-- octets contents encoding

-- 1-4 IP-address network-byte order

-- 5-6 UDP-port network-byte order

If the associated trapDestProtocol object is equal to ipx(2), the encoding of this object is the same as the snmpIPXAddress textual convention in RFC 3417, 'Transport Mappings for the Simple Network Management Protocol (SNMP)' [RFC3417]:

```

-- for a SnmpIPXAddress of length 12:
--
-- octets  contents      encoding
-- 1-4    network-number  network-byte order
-- 5-10   physical-address network-byte order
-- 11-12  socket-number   network-byte order

```

This object may not be modified if the associated

```

trapDestStatus object
is equal to active(1)."
::= { trapDestEntry 4 }

```

```

trapDestOwner OBJECT-TYPE
SYNTAX  OwnerString
MAX-ACCESS read-create
STATUS  deprecated
DESCRIPTION
    "The entity that configured this entry and is
    therefore using the resources assigned to it."
::= { trapDestEntry 5 }

```

```

trapDestStatus OBJECT-TYPE
SYNTAX  RowStatus
MAX-ACCESS read-create
STATUS  deprecated
DESCRIPTION
    "The status of this trap destination entry.

```

```

    An entry may not exist in the active state unless all
    objects in the entry have an appropriate value."
::= { trapDestEntry 6 }

```

```

-- Serial Connection Table
--
-- The device may communicate with a management station using
-- SLIP. In order for the device to send traps via SLIP, it must
-- be able to initiate a connection over the serial interface. The
-- serialConnectionTable stores the parameters for such connection
-- initiation.

```

```

serialConnectionTable OBJECT-TYPE
SYNTAX  SEQUENCE
OF SerialConnectionEntry
MAX-ACCESS not-accessible
STATUS  deprecated

```

DESCRIPTION

"A list of serialConnectionEntries.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 14 }

serialConnectionEntry OBJECT-TYPE

SYNTAX SerialConnectionEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Configuration for a SLIP link over a serial line."

INDEX { serialConnectIndex }

::= { serialConnectionTable 1 }

SerialConnectionEntry ::= SEQUENCE {

serialConnectIndex Integer32,

serialConnectDestIpAddress IpAddress,

serialConnectType INTEGER,

serialConnectDialString ControlString,

serialConnectSwitchConnectSeq ControlString,

serialConnectSwitchDisconnectSeq ControlString,

serialConnectSwitchResetSeq ControlString,

serialConnectOwner OwnerString,

serialConnectStatus RowStatus

}

serialConnectIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A value that uniquely identifies this serialConnection entry."

::= { serialConnectionEntry 1 }

serialConnectDestIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP Address that can be reached at the other end of this serial connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."
::= { serialConnectionEntry 2 }

serialConnectType OBJECT-TYPE

SYNTAX INTEGER {
 direct(1),
 modem(2),
 switch(3),
 modemSwitch(4)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of outgoing connection to be made. If this object has the value direct(1), then a direct serial connection is assumed. If this object has the value modem(2), then serialConnectDialString will be used to make a modem connection. If this object has the value switch(3), then serialConnectSwitchConnectSeq will be used to establish the connection over a serial data switch, and serialConnectSwitchDisconnectSeq will be used to terminate the connection. If this object has the value modem-switch(4), then a modem connection will be made first, followed by the switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."
DEFVAL { direct }
::= { serialConnectionEntry 3 }

serialConnectDialString OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to dial the phone number in order to establish a modem connection. The string should include the dialing prefix and suffix. For example: '^s^MATD9,888-1234^M' will instruct the Probe to send a carriage return, followed by the dialing prefix 'ATD', the phone number '9,888-1234', and a carriage

return as the dialing suffix.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 4 }

serialConnectSwitchConnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to establish a data switch connection.

This object may not be modified if the associated serialConnectStatus object is

equal to active(1)."

::= { serialConnectionEntry 5 }

serialConnectSwitchDisconnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to terminate a data switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 6 }

serialConnectSwitchResetSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to reset a data switch in the event of a timeout.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 7 }

serialConnectOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entity that configured this entry and is
therefore using the resources assigned to it."

::= { serialConnectionEntry 8 }

serialConnectStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConnectionEntry.

If the manager attempts to set this object to active(1) when
the serialConnectType is set to modem(2) or modem-switch(4)
and the serialConnectDialString is a zero-length string or
cannot be correctly parsed as a ConnectString, the set
request will be rejected with badValue(3).

If the manager attempts to set this object to active(1) when
the serialConnectType is set to switch(3) or modem-switch(4)
and the serialConnectSwitchConnectSeq,
the serialConnectSwitchDisconnectSeq, or

the serialConnectSwitchResetSeq is a zero-length string
or cannot be correctly parsed as a ConnectString,

the set

request will be rejected with badValue(3).

An entry may not exist in the active state unless all
objects in the entry have an appropriate value."

::= { serialConnectionEntry 9 }

--

-- Extensions to the RMON 1 MIB for RMON 2 devices

--

-- These extensions include the standard LastCreateTime Textual
-- Convention for all control tables, as well as an augmentation of
-- the filter entry that provides variable-length offsets into
-- packets.

-- Each of the following, except for filterDroppedFrames, is a
-- read-only object which, if implemented, automatically appears when
-- the RMON1 row it is associated with is created.

etherStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF EtherStats2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { statistics 4 }

etherStats2Entry OBJECT-TYPE

SYNTAX EtherStats2Entry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { etherStatsEntry }

::= { etherStats2Table 1 }

EtherStats2Entry ::= SEQUENCE {

etherStatsDroppedFrames Counter32,

etherStatsCreateTime LastCreateTime

}

etherStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { etherStats2Entry

1 }

etherStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { etherStats2Entry 2 }

historyControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HistoryControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { history 5 }

historyControl2Entry OBJECT-TYPE

SYNTAX HistoryControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { historyControlEntry }

::= { historyControl2Table 1 }

HistoryControl2Entry ::= SEQUENCE {

historyControlDroppedFrames Counter32

}

historyControlDroppedFrames

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted

because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { historyControl2Entry 1 }

hostControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HostControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { hosts 4 }

hostControl2Entry OBJECT-TYPE

SYNTAX HostControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { hostControlEntry }

::= { hostControl2Table 1 }

HostControl2Entry ::= SEQUENCE {

hostControlDroppedFrames Counter32,

hostControlCreateTime LastCreateTime

}

hostControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the

probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number

of frames dropped."

::= { hostControl2Entry 1 }

hostControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { hostControl2Entry 2 }

matrixControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF MatrixControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { matrix 4 }

matrixControl2Entry OBJECT-TYPE

SYNTAX MatrixControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { matrixControlEntry }

::= { matrixControl2Table 1 }

MatrixControl2Entry ::= SEQUENCE {

matrixControlDroppedFrames Counter32,

matrixControlCreateTime LastCreateTime

}

matrixControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the

probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { matrixControl2Entry 1 }

matrixControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last

activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { matrixControl2Entry 2 }

channel2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Channel2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { filter 3 }

channel2Entry OBJECT-TYPE

SYNTAX Channel2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { channelEntry }

::= { channel2Table 1 }

Channel2Entry ::= SEQUENCE {

channelDroppedFrames Counter32,

channelCreateTime LastCreateTime

}

channelDroppedFrames OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { channel2Entry 1 }

channelCreateTime OBJECT-TYPE

SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { channel2Entry 2 }

tokenRingMLStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingMLStats2Entry
MAX-ACCESS not-accessible
STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 5 }

tokenRingMLStats2Entry OBJECT-TYPE

SYNTAX TokenRingMLStats2Entry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."
AUGMENTS { tokenRingMLStatsEntry }

::= { tokenRingMLStats2Table 1 }

TokenRingMLStats2Entry ::= SEQUENCE {
 tokenRingMLStatsDroppedFrames Counter32,
 tokenRingMLStatsCreateTime LastCreateTime
}

tokenRingMLStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe

chose not to count for this entry for

whatever reason. Most often, this event occurs when the
probe is out of some resources and decides to shed load from
this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."

::= { tokenRingMLStats2Entry 1 }

tokenRingMLStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last
activated. This can be used by the management station to
ensure that the table has not been deleted and recreated
between polls."

::= { tokenRingMLStats2Entry 2 }

tokenRingPStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 6 }

tokenRingPStats2Entry OBJECT-TYPE

SYNTAX TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { tokenRingPStatsEntry }

::= { tokenRingPStats2Table 1 }

TokenRingPStats2Entry ::= SEQUENCE {

tokenRingPStatsDroppedFrames Counter32,

tokenRingPStatsCreateTime LastCreateTime

}

tokenRingPStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count

for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { tokenRingPStats2Entry 1 }

tokenRingPStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { tokenRingPStats2Entry 2 }

ringStationControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF RingStationControl2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 7 }

ringStationControl2Entry OBJECT-TYPE

SYNTAX RingStationControl2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { ringStationControlEntry }

::= { ringStationControl2Table 1 }

RingStationControl2Entry ::= SEQUENCE {

ringStationControlDroppedFrames Counter32,

ringStationControlCreateTime LastCreateTime

}

ringStationControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to

count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { ringStationControl2Entry 1 }

ringStationControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to

ensure that the table has not been deleted and recreated between polls."

::= { ringStationControl2Entry 2 }

sourceRoutingStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 8 }

sourceRoutingStats2Entry OBJECT-TYPE

SYNTAX SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { sourceRoutingStatsEntry }

::= { sourceRoutingStats2Table 1 }

SourceRoutingStats2Entry ::= SEQUENCE {

sourceRoutingStatsDroppedFrames Counter32,

sourceRoutingStatsCreateTime LastCreateTime

}

sourceRoutingStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose

not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { sourceRoutingStats2Entry 1 }

sourceRoutingStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { sourceRoutingStats2Entry 2 }

filter2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Filter2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides a variable-length packet filter feature to the RMON-1 filter table."

::= { filter 4 }

filter2Entry OBJECT-TYPE

SYNTAX Filter2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides a variable-length packet filter feature to the
RMON-1 filter table."
AUGMENTS { filterEntry }
::= { filter2Table 1 }

Filter2Entry ::= SEQUENCE {
 filterProtocolDirDataLocalIndex Integer32,
 filterProtocolDirLocalIndex Integer32
}

filterProtocolDirDataLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that
it is associated with performs the following operations on
every packet:

- 1) If the packet doesn't match the protocol directory entry
 identified by this object, discard the packet and exit
 (i.e., discard the packet if it
is not of the identified
 protocol).
- 2) If the associated filterProtocolDirLocalIndex is non-zero
 and the packet doesn't match the protocol directory
 entry identified by that object, discard the packet and
 exit.
- 3) If the packet matches, perform the regular filter
 algorithm as if the beginning of this named protocol is
 the beginning of the packet, potentially applying the
 filterOffset value to move further into the packet."

DEFVAL { 0 }

::= { filter2Entry 1 }

filterProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that
it is associated with will discard the packet if the packet
doesn't match this protocol directory entry."

DEFVAL { 0 }

::= { filter2Entry 2 }

-- Conformance Macros

rmon2MIBCompliances OBJECT

IDENTIFIER ::= { rmonConformance 1 }

rmon2MIBGroups OBJECT IDENTIFIER ::= { rmonConformance 2 }

rmon2MIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to
the RMON2 MIB"

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,
 protocolDistributionGroup,
 addressMapGroup,
 nlHostGroup,
 nlMatrixGroup,
 usrHistoryGroup,
 probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

SYNTAX INTEGER {
 nlMatrixTopNPkts(1),
 nlMatrixTopNOctets(2)
 }

DESCRIPTION

"Conformance to RMON2 requires only support for these
values of nlMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems
that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is
appropriate for systems that implement the Ethernet
group of RMON [RFC2819]."

::= { rmon2MIBCompliances 1 }

rmon2MIBApplicationLayerCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the RMON2 MIB with Application-Layer Enhancements."

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,
 protocolDistributionGroup,
 addressMapGroup,
 nlHostGroup,
 nlMatrixGroup,
 alHostGroup,
 alMatrixGroup,
 usrHistoryGroup,
 probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

SYNTAX INTEGER {
 nlMatrixTopNPkts(1),
 nlMatrixTopNOctets(2)
 }

DESCRIPTION

"Conformance to RMON2 requires only support for these values of nlMatrixTopNControlRateBase."

OBJECT alMatrixTopNControlRateBase

SYNTAX INTEGER {
 alMatrixTopNTerminalsPkts(1),
 alMatrixTopNTerminalsOctets(2),
 alMatrixTopNAllPkts(3),
 alMatrixTopNAllOctets(4)
 }

DESCRIPTION

"Conformance to RMON2 requires only support for these

values of alMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is appropriate for systems that implement the Ethernet group of RMON [RFC2819]."

::= { rmon2MIBCompliances 2 }

protocolDirectoryGroup OBJECT-GROUP

OBJECTS { protocolDirLastChange,
protocolDirLocalIndex, protocolDirDescr,
protocolDirType, protocolDirAddressMapConfig,
protocolDirHostConfig, protocolDirMatrixConfig,
protocolDirOwner, protocolDirStatus }

STATUS current

DESCRIPTION

"Lists the inventory of protocols the probe has the
capability of monitoring and allows the addition, deletion,
and configuration of entries in this list."

::= { rmon2MIBGroups 1 }

protocolDistributionGroup OBJECT-GROUP

OBJECTS { protocolDistControlDataSource,
protocolDistControlDroppedFrames,
protocolDistControlCreateTime,
protocolDistControlOwner, protocolDistControlStatus,
protocolDistStatsPkts, protocolDistStatsOctets }

STATUS current

DESCRIPTION

"Collects the relative amounts of octets and packets for the
different protocols detected on a network segment."

::= { rmon2MIBGroups 2 }

addressMapGroup OBJECT-GROUP

OBJECTS { addressMapInserts, addressMapDeletes,
addressMapMaxDesiredEntries,
addressMapControlDataSource,
addressMapControlDroppedFrames,
addressMapControlOwner, addressMapControlStatus,
addressMapPhysicalAddress,
addressMapLastChange }

STATUS current

DESCRIPTION

"Lists MAC address to network address bindings discovered by
the probe and what interface they were last seen on."

::= { rmon2MIBGroups 3 }

nlHostGroup OBJECT-GROUP

OBJECTS { hlHostControlDataSource,
hlHostControlNIDroppedFrames, hlHostControlNIInserts,
hlHostControlNIDeletes,
hlHostControlNIMaxDesiredEntries,

hlHostControlAlDroppedFrames, hlHostControlAlInserts,
hlHostControlAlDeletes,
hlHostControlAlMaxDesiredEntries, hlHostControlOwner,
hlHostControlStatus, nlHostInPkts, nlHostOutPkts,
nlHostInOctets, nlHostOutOctets,
nlHostOutMacNonUnicastPkts, nlHostCreateTime }

STATUS current

DESCRIPTION

"Counts the amount of traffic sent from and to each network address discovered by the probe. Note that while the hlHostControlTable also has objects that control an optional alHostTable, implementation of the alHostTable is not required to fully implement this group."

::= { rmon2MIBGroups 4 }

nlMatrixGroup OBJECT-GROUP

OBJECTS { hlMatrixControlDataSource,
hlMatrixControlNlDroppedFrames,
hlMatrixControlNlInserts, hlMatrixControlNlDeletes,
hlMatrixControlNlMaxDesiredEntries,
hlMatrixControlAlDroppedFrames,
hlMatrixControlAlInserts, hlMatrixControlAlDeletes,
hlMatrixControlAlMaxDesiredEntries,
hlMatrixControlOwner, hlMatrixControlStatus,
nlMatrixSDPkts, nlMatrixSDOctets, nlMatrixSDCreateTime,
nlMatrixDSPPkts, 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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-MIB

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

SNA-NAU-MIB DEFINITIONS ::= BEGIN

```

-- This MIB module contains objects necessary
-- for management of the following SNA devices: PU types 1.0, 2.0, 2.1
-- and LU types 0, 1, 2, 3, 4, 7. It also contains generic objects

```

- which can be used to manage LU 6.2.
- Naming conventions in this document:
- The following names are used in object descriptors according to
- SNA conventions.
- The name 'PU' or 'Node' is used to describe Node type 1.0, 2.0 or
- 2.1.
- The name 'LU' is used to describe Logical Unit of type 0,1,2,3,
- 4,7 or 6.2.

IMPORTS

DisplayString, RowStatus, TimeStamp, InstancePointer
FROM SNMPv2-TC

Counter32, Gauge32, Integer32, mib-2,
OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE
FROM SNMPv2-SMI

MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF;

snanauMIB MODULE-IDENTITY
LAST-UPDATED "9405120900Z"

ORGANIZATION "IETF SNA NAU MIB Working Group"

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DESCRIPTION

"This is the MIB module for objects used to
manage

SNA devices."

::= { mib-2 34 }

-- The SNANAU MIB module contains an objects part and a conformance part.

-- Objects are organized into the following groups:

-- (1)snaNode group,

-- (2)snaLU group,

-- (3)snaMgtTools group.

snanauObjects OBJECT IDENTIFIER ::= { snanauMIB 1 }

snaNode OBJECT IDENTIFIER ::= { snanauObjects 1 }

snaLu OBJECT IDENTIFIER ::= { snanauObjects 2 }

snaMgtTools OBJECT IDENTIFIER ::= { snanauObjects 3 }

-- *****

-- snaNode group

--

-- It contains Managed Objects related to any type of Node and

-- some specific objects for Node Type 2.0.

-- *****

-- *****

-- The following table contains generic Node configuration

-- parameters.

-- *****

snaNodeAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects which describe the
configuration parameters for an SNA Node. Link
specific configuration objects are contained in
a separate MIB module (e.g., SNA DLC MIB)
corresponding to the link type.

The table snaNodeAdminLinkTable contains objects
which identify the relationship between node instances
and link instances.

The entries (i.e., rows) in this table can be created by either an Agent or a Management Station. The Management Station can do this through setting the appropriate value in the `snaNodeAdminRowStatus`.

The `snaNodeAdminRowStatus` object describes the status of an entry and is used to change the status of an entry. The entry is deleted by an Agent based on the value of the `snaNodeAdminRowStatus`.

The `snaNodeAdminState` object describes the desired operational state of a Node and is used to change the operational state of a Node. For example, such information may be obtained from a configuration file.

How an Agent or a Management Station obtains the initial value of each object at creation time is an implementation specific issue.

For each entry in this table, there is a corresponding entry in the `snaNodeOperTable`.

While the objects in this table describe the desired or configured operational values of the SNA Node, the actual runtime values are contained in `snaNodeOperTable`."

```
::= { snaNode 1 }
```

`snaNodeAdminEntry` OBJECT-TYPE

SYNTAX `SnaNodeAdminEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains the configuration parameters for one SNA Node instance. The objects in the entry have read-create access.

An entry can be created, modified or deleted. The object `snaNodeAdminRowStatus` is used (i.e., set) to create or delete a row entry."

INDEX { `snaNodeAdminIndex` }

```
::= { snaNodeAdminTable 1 }
```

`SnaNodeAdminEntry` ::= SEQUENCE {

`snaNodeAdminIndex`

Integer32,

`snaNodeAdminName`

DisplayString,

`snaNodeAdminType`

```

    INTEGER,
snaNodeAdminXidFormat
    INTEGER,
snaNodeAdminBlockNum
    DisplayString,
snaNodeAdminIdNum
    DisplayString,
snaNodeAdminEnablingMethod
    INTEGER,
snaNodeAdminLuTermDefault
    INTEGER,
snaNodeAdminMaxLu

```

```

Integer32,
snaNodeAdminHostDescription
    DisplayString,
snaNodeAdminStopMethod
    INTEGER,
snaNodeAdminState
    INTEGER,
snaNodeAdminRowStatus
    RowStatus
}

```

snaNodeAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index used to uniquely identify each Node instance.

If an Agent creates the entry, then it will assign
this number otherwise a Management Station
generates a random number when it reserves the
entry for creation."

::= { snaNodeAdminEntry 1 }

snaNodeAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired name of the
Node for use during Node activation.

In Type 2.1 networks, this is a fully-qualified name,
meaning that the Node name is preceded by the NetId (if
present) with a period as the delimiter.

A write operation to this object will not change the operational value reflected in snaNodeOperName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 2 }

snaNodeAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),
pu10(2),
pu20(3),
t21len(4),
endNode(5),
networkNode(6)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of SNA Node.

A write operation to this object will not change the operational value reflected

in snaNodeOperType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 3 }

snaNodeAdminXidFormat OBJECT-TYPE

SYNTAX INTEGER {

format0(1),
format1(2),
format3(3)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of XID format used for this Node. Note that there is no format type 2.

A write operation to this object will not change the operational value reflected in snaNodeOperAdminXidFormat until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 4 }

snaNodeAdminBlockNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(3))

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The value indicates the block number for this Node instance. It is the first 3 hexadecimal digits of the SNA Node id.

A write operation to this object will not change the operational value reflected in snaNodeOperBlockNum until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 5 }

snaNodeAdminIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(5))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the ID number for this Node instance. This is the last 5 hexadecimal digits of the SNA Node id.

A write operation to this object will not change the operational value reflected in snaNodeOperIdNum until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 6 }

snaNodeAdminEnablingMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),
startup (2),
demand (3),
onlyMS (4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates how the Node should be activated for the first time.

The values have the following meanings:

other (1) - may be used for proprietary methods

not listed in this enumeration,
startup (2) - at SNA services' initialization time
(this is the default),
demand (3) - only when LU is requested by application,
or
onlyMS (4) - by a Management Station only.

A write operation
to this object may immediately
change the operational value reflected
in snaNodeOperEnablingMethod depending
on the Agent implementation. If the Agent
implementation accepts immediate changes, then the
behavior of the Node changes immediately and not only
after the next system startup of the SNA services.
An immediate change may only apply when the
current value 'demand (3)' is changed to 'onlyMS (4)'
and vice versa."
::= { snaNodeAdminEntry 7 }

snaNodeAdminLuTermDefault OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),
termself (2),
rshutd (3),
poweroff(4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired default method
used to deactivate LUs for this Node
For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending
an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending
an SNA TERM-SELF (Terminate Self) request on
the SSCP-LU session. The SSCP will inform the
remote session LU partner to send an UNBIND
request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending
an SNA RSHUTD (Request ShutDown) request to
the remote session LU partner. The remote LU
will then send an UNBIND request to terminate
the session.

poweroff(4) - terminate the LU-LU session by sending
either an SNA LUSTAT (LU Status) request on

the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

The default behavior indicated by the value of this object may be overridden for an LU instance. The override is performed by setting the snaLuAdminTerm object instance in the snaLuAdminTable to the desired value.

A write operation to this object may immediately change the operational value reflected in snaNodeOperLuTermDefault depending on the Agent implementation."

::= { snaNodeAdminEntry 8 }

snaNodeAdminMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of LUs that may be activated for this Node. For PU2.1, this object refers to the number of dependent LUs.

A write operation to this object will not change the operational value reflected in snaNodeOperMaxLu until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 9 }

snaNodeAdminHostDescription OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value identifies the remote host associated with this Node.

Since SSCP Id's may not be unique across hosts, the host description is required to uniquely identify the SSCP. This object

is only applicable to PU2.0 type

Nodes. If the remote host is unknown, then the value is the null string.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperHostDescription` depending on the Agent implementation."

::= { `snaNodeAdminEntry 10` }

`snaNodeAdminStopMethod` OBJECT-TYPE

SYNTAX INTEGER {

other (1),
normal (2),
immed (3),
force (4)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired method to be used by the Agent to stop a Node (i.e., change the Node's operational state to `inactive(1)`).

The values have the following meaning:

`other (1)` - used for proprietary methods not listed in this enumeration.
`normal(2)` - deactivate only when there is no more activity on this Node (i.e., all data flows have been completed and all sessions have been terminated).
`immed(3)` - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.
`force(4)` - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperStopMethod`

depending

on the Agent implementation."

::= { `snaNodeAdminEntry 11` }

snaNodeAdminState OBJECT-TYPE

SYNTAX INTEGER {
 inactive (1),
 active (2)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired operational state of the SNA Node. This object is used by the Management Station to activate or deactivate the Node.

If the current value in snaNodeOperState is 'active (2)', then setting this object to 'inactive (1)' will initiate the Node shutdown process using the method indicated by snaNodeOperStopMethod.

If the current value in snaNodeOperState is 'inactive (1)', then setting this object to 'active (2)'

will initiate the

Node's activation.

A Management Station can always set this object to 'active (2)' irrespective of the value in the snaOperEnablingMethod."

::= { snaNodeAdminEntry 12 }

snaNodeAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaNodeAdminTable following the RowStatus textual convention.

Upon successful creation of the row, an Agent automatically creates a corresponding entry in the snaNodeOperTable with snaNodeOperState equal to 'inactive (1)'.

Row deletion can be Management Station or Agent initiated:

(a) The Management

Station can set the value to

'destroy (6)' only when the value of
snaNodeOperState of this Node instance is
'inactive (1)'. The Agent will then delete the rows
corresponding to this Node instance from the
snaNodeAdminTable and the snaNodeOperTable.

(b) The Agent detects that a row is in the
'notReady (3)' state for greater than a
default period of 5 minutes.

(c) All rows with the snaNodeAdminRowStatus object's
value of 'notReady (3)' will be removed upon the
next initialization of the SNA services."

::= { snaNodeAdminEntry 13 }

```
-- *****
-- The following object is updated when there is a change to
-- the value of any object in the snaNodeAdminTable.
-- *****
```

snaNodeAdminTableLastChange

OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the timestamp
(e.g., the Agent's sysUpTime value) of the last
change made to any object in the snaNodeAdminTable,
including row deletions/additions (e.g., changes to
snaNodeAdminRowStatus values).

This object can be used to reduce frequent
retrievals of the snaNodeAdminTable by a Management
Station. It is expected that a Management Station
will periodically poll this object and compare its
current value with the previous one. A difference
indicates that some Node configuration information
has been changed. Only then will the Management
Station retrieve the entire table."

::= { snaNode

2 }

```
-- *****
-- The following table contains Node operational parameters.
-- *****
```

snaNodeOperTable OBJECT-TYPE
 SYNTAX SEQUENCE OF SnaNodeOperEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains the dynamic parameters which
 have read-only access. These objects reflect the
 actual status of the Node. The entries in this
 table cannot be created or modified by a
 Management Station.
 This table augments the snaNodeAdminTable."
 ::= { snaNode 3 }

snaNodeOperEntry OBJECT-TYPE
 SYNTAX SnaNodeOperEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "The entry contains parameters which describe the
 state of
 one Node. The entries are created by the
 Agent. They have read-only access."
 AUGMENTS { snaNodeAdminEntry }
 ::= { snaNodeOperTable 1 }

SnaNodeOperEntry ::= SEQUENCE {
 snaNodeOperName
 DisplayString,
 snaNodeOperType
 INTEGER,
 snaNodeOperXidFormat
 INTEGER,
 snaNodeOperBlockNum
 DisplayString,
 snaNodeOperIdNum
 DisplayString,
 snaNodeOperEnablingMethod
 INTEGER,
 snaNodeOperLuTermDefault
 INTEGER,
 snaNodeOperMaxLu
 Integer32,
 snaNodeOperHostDescription
 DisplayString,
 snaNodeOperStopMethod
 INTEGER,
 snaNodeOperState
 INTEGER,

```

snaNodeOperHostSscpId
    OCTET STRING,
snaNodeOperStartTime
    TimeStamp,
snaNodeOperLastStateChange
    TimeStamp,
snaNodeOperActFailures
    Counter32,
snaNodeOperActFailureReason
    INTEGER
}

```

snaNodeOperName OBJECT-TYPE
 SYNTAX DisplayString (SIZE(0..17))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The value identifies the current name of the Node.
 In Type 2.1 networks, this
 is a fully-qualified name, meaning that the Node name
 is preceded by the NetId (if present) with a period
 as the delimiter."
 ::= { snaNodeOperEntry 1 }

snaNodeOperType OBJECT-TYPE
 SYNTAX INTEGER {
 other(1),
 pu10(2),
 pu20(3),
 t21LEN(4),
 endNode(5),
 networkNode(6)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The value identifies the current type of the Node."
 ::= { snaNodeOperEntry 2 }

snaNodeOperXidFormat OBJECT-TYPE
 SYNTAX INTEGER {
 format0 (1),
 format1 (2),
 format3 (3)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The value identifies the type of XID format currently used for this Node.

Note that there is no format type 2."

::= { snaNodeOperEntry 3 }

snaNodeOperBlockNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(3))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the block number for this Node instance. It is the first 3 hexadecimal digits of the SNA Node id."

::= { snaNodeOperEntry 4 }

snaNodeOperIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(5))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the ID number for this Node instance. This is the last 5 hexadecimal digits of the SNA Node id."

::= { snaNodeOperEntry 5 }

snaNodeOperEnablingMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),

startup (2),

demand (3),

onlyMS (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates how the Node is activated for the first time.

The values have the following meanings:

other (1) - not at boot time, LU activation
or by a Management Station;

startup (2) - at SNA services' initialization
time (this is the default),

demand (3) - only when LU is requested by
application,

onlyMS (4) - by a network Management Station
only."

::= { snaNodeOperEntry 6 }

snaNodeOperLuTermDefault OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),
termself (2),
rshutd (3),
poweroff (4)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the default method used to deactivate LUs for this Node.

For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform

the

remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

This object

describes the default behavior for this

Node; however, it is possible that for a specific LU the behavior indicated by the snaLuOperTerm object is different."

::= { snaNodeOperEntry 7 }

snaNodeOperMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current, maximum number of LUs that are activated for this Node. For PU2.1, this object refers to the number of dependent LUs."

::= { snaNodeOperEntry 8 }

snaNodeOperHostDescription OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the remote host currently associated with this Node.

Since SSCP Id's may not be unique across hosts, the

host description

is required to uniquely identify the SSCP."

::= { snaNodeOperEntry 9 }

snaNodeOperStopMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),

normal (2),

immed (3),

force (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current Node shutdown method to be used by the Agent to stop the Node. When the Agent changes the Node's state to 'inactive (1)', the Agent must use the shutdown method indicated by this object.

The values have the following meaning:

other (1) - proprietary method not listed in this enumeration

normal(2) - deactivate only when there is no more activity on this Node (i.e., all

data flows

have been completed and all sessions have been terminated).

immed(3) - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.

force(4) - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

Note that a write operation to snaNodeAdminOperStopMethod may immediately change the value of snaNodeOperStopMethod depending on the Agent implementation."

::= { snaNodeOperEntry 10 }

snaNodeOperState OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),
active (2),
waiting (3),
stopping (4)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Node.

The values have the following meanings:

inactive (1), a row representing the Node has been created in the AdminTable and, the Node is ready for activation -or- an active Node has been stopped -or- a waiting Node has returned to the inactive state.

waiting (3), a request to have the Node activated has been issued, and the Node is pending activation.

active (2), the Node is ready and operating.

stopping (4), the request to stop the Node has been

issued while the StopMethod normal or immediate is used."

::= { snaNodeOperEntry 11 }

snaNodeOperHostSscpId OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..6))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current SSCP Id associated with the Node. This object is only applicable to PU 2.0s. If the Node

is not a PU 2.0 type, then this object contains a
zero length string."
::= { snaNodeOperEntry 12 }

snaNodeOperStartTime OBJECT-TYPE

SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The timestamp (e.g, the Agent's sysUpTime value)
 at the Node activation."
::= { snaNodeOperEntry 13 }

snaNodeOperLastStateChange OBJECT-TYPE

SYNTAX TimeStamp
MAX-ACCESS read-only

STATUS current
DESCRIPTION
 "The timestamp (e.g., the Agent's sysUpTime value)
 at the last state change of the Node."
::= { snaNodeOperEntry 14 }

snaNodeOperActFailures OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value identifies the number of failed Node
 activation attempts."
::= { snaNodeOperEntry 15 }

snaNodeOperActFailureReason OBJECT-TYPE

SYNTAX INTEGER {
 other (1),
 linkFailure (2),
 noResources (3),
 badConfiguration (4),
 internalError (5)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The value indicates the reason for the activation
 failure. The value 'other (1)' indicates a reason
 not

listed in the enumeration. This object
will be sent in the trap snaNodeActFailTrap."

::= { snaNodeOperEntry 16 }

-- *****
-- The following object is updated when there is a change to
-- the value of snaNodeOperState in any row or a row is
-- added/deleted from the snaNodeOperTable via the snaNodeAdminTable.
-- *****

snaNodeOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)
at the last change made to any object in the
snaNodeOperTable, including row deletions/additions
made as a result of changes to the
snaNodeAdminRowStatus object.

This object can be used to reduce frequent
retrievals

of the snaNodeOperTable by a Management

Station. It is expected that a Management Station
will periodically poll this object and compare its
current value with the previous one. A difference
indicates that some Node operational information
has been changed. Only then will the Management
Station retrieve the entire table."

::= { snaNode 4 }

-- *****
-- The following table contains PU 2.0 statistics dynamic parameters.
-- *****

snaPu20StatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaPu20StatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the dynamic parameters which
have read-only access. The entries in this table
correspond

to PU 2.0 entries in the snaNodeOperTable

and cannot be created by a Management Station."

::= { snaNode 5 }

snaPu20StatsEntry OBJECT-TYPE

SYNTAX SnaPu20StatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry contains parameters which describe the statistics for one PU 2.0. They have read-only access.

The counters represent traffic for all kinds of sessions: LU-LU, SSCP-PU, SSCP-LU.

Each Node of PU Type 2.0 from the snaNodeAdminTable has one entry in this table and the index used here has the same value as snaNodeAdminIndex of that PU. The entry is created by the Agent."

INDEX { snaNodeAdminIndex }

::= { snaPu20StatsTable 1 }

SnaPu20StatsEntry ::= SEQUENCE {

snaPu20StatsSentBytes

Counter32,

snaPu20StatsReceivedBytes

Counter32,

snaPu20StatsSentPius

Counter32,

snaPu20StatsReceivedPius

Counter32,

snaPu20StatsSentNegativeResps

Counter32,

snaPu20StatsReceivedNegativeResps

Counter32,

snaPu20StatsActLus

Gauge32,

snaPu20StatsInActLus

Gauge32,

snaPu20StatsBindLus

Gauge32

}

snaPu20StatsSentBytes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of bytes sent by this Node."

::= { snaPu20StatsEntry 1 }

snaPu20StatsReceivedBytes OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of bytes received by this Node."
 ::= { snaPu20StatsEntry
 2 }

snaPu20StatsSentPius OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of PIUs sent by this Node."
 ::= { snaPu20StatsEntry 3 }

snaPu20StatsReceivedPius OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of PIUs received by this Node."
 ::= { snaPu20StatsEntry 4 }

snaPu20StatsSentNegativeResps OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of negative responses sent
 by this Node."
 ::= { snaPu20StatsEntry 5 }

snaPu20StatsReceivedNegativeResps OBJECT-TYPE

SYNTAX Counter32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The number of negative responses received

 by this Node."
 ::= { snaPu20StatsEntry 6 }

snaPu20StatsActLus OBJECT-TYPE

SYNTAX Gauge32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION

"The number of LUs on this PU which have
received and responded to ACTLU from the host."
::= { snaPu20StatsEntry 7 }

snaPu20StatsInActLus OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of LUs on this PU which have
not received an ACTLU from the host. This is
possible if the number of configured LUs exceeds
that on the host."

::= { snaPu20StatsEntry 8 }

snaPu20StatsBindLus OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of LUs on this PU which have
received and acknowledged

a BIND request from the
host."

::= { snaPu20StatsEntry 9 }

-- *****
-- The following table contains the association between Nodes and
-- link identifiers.
-- It is used for configuration purposes.
-- *****

snaNodeLinkAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the references to link
specific tables. If a Node is configured for
multiple links, then the Node will have
multiple entries in this table.

The entries in this table can be generated
initially, after initialization of SNA service,
by the Agent which uses information from
Node configuration file.

Subsequent modifications of parameters,
creation of new Nodes link entries and deletion

of entries is possible.

The modification to this table can be saved in the Node configuration file for the next initialization of SNA service, but the mechanism for this function is not defined here."

::= { snaNode 6 }

snaNodeLinkAdminEntry OBJECT-TYPE

SYNTAX SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entry contains the configuration information that associates a Node instance to one link instance.

The objects in the entry have read-create access.

Entry can be created, modified or deleted.

The object snaNodeLinkAdminRowStatus is used (set) to create or delete an entry.

The object

snaNodeLinkAdminSpecific can be set

later, after the entry has been created."

INDEX { snaNodeAdminIndex,
snaNodeLinkAdminIndex }

::= { snaNodeLinkAdminTable 1 }

SnaNodeLinkAdminEntry ::= SEQUENCE {

snaNodeLinkAdminIndex

Integer32,

snaNodeLinkAdminSpecific

InstancePointer,

snaNodeLinkAdminMaxPiu

Integer32,

snaNodeLinkAdminRowStatus

RowStatus

}

snaNodeLinkAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value is used to index the instances of objects.

If an Agent creates the entry, then it will assign

this number otherwise a Management Station

generates a random number when it reserves the

entry for creation."

::=

{ snaNodeLinkAdminEntry 1 }

snaNodeLinkAdminSpecific OBJECT-TYPE

SYNTAX InstancePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value points to the row in the table containing information on the link instance. (e.g., the sdlcLSAdminTable of the SNA DLC MIB module)."

::= { snaNodeLinkAdminEntry 2 }

snaNodeLinkAdminMaxPiu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the maximum number of octets that can be exchanged by this Node in one Path Information Unit (PIU)."

::= { snaNodeLinkAdminEntry 3 }

snaNodeLinkAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a

Management Station to

create or delete the row entry in the snaNodeLinkAdminTable.

To activate a row, a Management Station sets the value to 'active (1)' or 'notReady (3)'. Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaNodeLinkOperTable.

Row deletion can be Management Station or Agent initiated:

(a) The Management Station can set the value to 'destroy (6)' only when the value of snaNodeLinkOperState of this Link instance is 'inactive (1)'. The Agent will then delete the row corresponding to this Link instance from snaNodeLinkOperTable and from snaNodeLinkAdminTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a

default period of 5 minutes.

(c) The Agent will not include a row with RowStatus=
'notReady (3)', after SNA system re-initialization
(e.g., reboot)."

::= { snaNodeLinkAdminEntry 4 }

```
-- *****  
-- The following object is updated when there is a change to  
-- the value of any object in the snaNodeLinkAdminTable.  
-- *****
```

snaNodeLinkAdminTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)
at the last
change made to any object in the snaNodeLinkAdminTable,
including row deletions/additions (i.e., changes
to the snaNodeLinkAdminRowStatus object).

This object can be used to reduce
frequent
retrievals of the snaNodeLinkAdminTable by a
Management Station. It is expected that a
Management Station will periodically poll this
object and compare its current value with the
previous one.
A difference indicates that some Node operational
information has been changed. Only then will the
Management Station retrieve the entire table."

::= { snaNode 7 }

```
-- *****  
-- The following table contains the association between  
-- Nodes and link identifiers.  
-- It provides the current status.  
-- *****
```

snaNodeLinkOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeLinkOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains all references
to link
specific tables for operational parameters.
If a Node is configured for multiple links,
then the Node will have multiple entries in
this table. This table augments the
snaNodeLinkAdminTable."
::= { snaNode 8 }

snaNodeLinkOperEntry OBJECT-TYPE
SYNTAX SnaNodeLinkOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Entry contains all current parameters for one
Node link. The objects in the entry have
read-only access."
AUGMENTS { snaNodeLinkAdminEntry }
::= { snaNodeLinkOperTable 1 }

SnaNodeLinkOperEntry ::= SEQUENCE {
snaNodeLinkOperSpecific
InstancePointer,
snaNodeLinkOperMaxPiu
Integer32
}

snaNodeLinkOperSpecific OBJECT-TYPE
SYNTAX InstancePointer
MAX-ACCESS
read-only
STATUS current
DESCRIPTION
"This value points to the row in the table
containing information on the link instance.
(e.g., the sdlcLSOperTable of
the SNA DLC MIB module)."
::= { snaNodeLinkOperEntry 1 }

snaNodeLinkOperMaxPiu OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Maximum number of octets that can
be exchanged by this Node in one Path
Information Unit (PIU)."
::= { snaNodeLinkOperEntry 2 }

```
-- *****
-- The following object is updated when a row is added/deleted
-- from the snaNodeLinkOperTable.
-- *****
```

snaNodeLinkOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp of the last
change made to any object in the snaNodeLinkOperTable,
including row deletions/additions.

This object can be used to reduce frequent
retrievals of the snaNodeLinkOperTable by a
Management Station. It is expected that a
Management Station will periodically poll this
object and compare its current value with the
previous one.

A difference indicates that some Node operational
information has been changed. Only then will the
Management Station retrieve the entire table."

::= { snaNode 9 }

```
-- *****
-- Traps
-- *****
```

snaNodeTraps OBJECT IDENTIFIER ::= { snaNode 10 }

snaNodeStateChangeTrap

NOTIFICATION-TYPE

OBJECTS { snaNodeOperName,
snaNodeOperState }

STATUS current

DESCRIPTION

"This trap indicates that the operational state
(i.e., value of the snaNodeOperState object) of a Node
has changed. The following variables are returned:
snaNodeOperName - current name of the Node,
with the instance identifying the Node; and,
snaNodeOperState - current state after
the change."

::= { snaNodeTraps 1 }

snaNodeActFailTrap NOTIFICATION-TYPE

OBJECTS { snaNodeOperName,
snaNodeOperState,
snaNodeOperActFailureReason }

STATUS current

DESCRIPTION

"This trap indicates a Node activation failure.

The value of snaNodeOperState indicates the current
state after the activation attempt.

The value of snaNodeOperActFailureReason indicates
the failure reason."

::= { snaNodeTraps 2 }

-- *****

-- snaLu group

--

-- It contains Managed Objects related to LUs in general and some

-- specific for LUs of type 0, 1, 2, 3.

-- *****

-- *****

-- The following table contains LU configuration parameters.

-- *****

snaLuAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains LU configuration information.

The rows in this table can be created and deleted
by a Management Station.

Only objects which are common to all types of LUs

are included in this table."

::= { snaLu 1 }

snaLuAdminEntry OBJECT-TYPE

SYNTAX SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains configuration variables for an LU."

INDEX { snaNodeAdminIndex, snaLuAdminLuIndex }

::= { snaLuAdminTable 1 }

```

SnaLuAdminEntry ::= SEQUENCE {
    snaLuAdminLuIndex
        Integer32,
    snaLuAdminName
        DisplayString,
    snaLuAdminSnaName
        DisplayString,
    snaLuAdminType
        INTEGER,
    snaLuAdminDepType
        INTEGER,
    snaLuAdminLocalAddress
        OCTET STRING,
    snaLuAdminDisplayModel
        INTEGER,
    snaLuAdminTerm
        INTEGER,
    snaLuAdminRowStatus
        RowStatus
}

```

snaLuAdminLuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value identifies the unique index for an
LU instance within a Node."

::= { snaLuAdminEntry 1 }

snaLuAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the user configurable
name for this LU. If a name is not assigned to the LU,
then this object contains a zero length string.

A write operation to this object will
not change the operational value reflected
in snaLuOperName until the Node has
been re-activated (e.g., after the next
initialization of the SNA services)."

::= { snaLuAdminEntry 2 }

snaLuAdminSnaName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies
the SNA LU name
used in exchange of SNA data.

A write operation to this object will
not change the operational value reflected
in snaLuOperSnaName until the Node has
been re-activated (e.g., after the next
initialization of the SNA services)."

::= { snaLuAdminEntry 3 }

snaLuAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

lu0(2),

lu1(3),

lu2(4),

lu3(5),

lu4(6),

lu62(7),

lu7(8)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the LU type.

A write operation to this object will
not change the operational value reflected
in snaLuOperAdminType until the Node has
been re-activated (e.g., after the next
initialization of the SNA services)."

::= { snaLuAdminEntry 4 }

snaLuAdminDepType OBJECT-TYPE

SYNTAX INTEGER {

dependent(1),

independent(2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies whether the LU is
dependent or independent.

A write operation to this object will not change the operational value reflected in snaLuOperDepType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 5 }

snaLuAdminLocalAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The local address for this LU is a byte with a value ranging from 0 to 254. For dependent LUs, this value ranges from 1 to 254 and for independent LUs this value is always 0.

A write operation to this object will not change the operational value reflected in snaLuOperLocalAddress until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 6 }

snaLuAdminDisplayModel OBJECT-TYPE

SYNTAX INTEGER {

invalid(1),
model2A(2),
model2B(3),
model3A(4),
model3B(5),
model4A(6),
model4B(7),
model5A(8),
model5B(9),
dynamic(10)
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object identifies the model type and screen size of the terminal connected to the host. This

is only valid for LU Type 2. The values have the following meaning:

model2A(2) - Model 2 (24 rows x 80 cols) with base attributes

model2B(3) - Model 2 (24 rows x 80 cols) with
 extended attributes
 model3A(4) - Model 3 (32 rows x 80 cols) with base
 attributes
 model3B(5) - Model 3 (32 rows x 80 cols) with extended
 attributes
 model4A(6) - Model 4 (43 rows x 80 cols) with base
 attributes
 model4B(7) - Model 4 (43 rows x 80 cols) with extended
 attributes
 model5A(8) - Model 5 (27 rows x 132 cols) with base
 attributes
 model5B(9) - Model 5 (27 rows x 132 cols) with
 extended attributes
 dynamic(10) - Screen size determine with
 BIND and Read
 Partition Query.

In case this LU is not Type 2, then this object
 should contain the invalid(1) value."
 ::= { snaLuAdminEntry 7 }

snaLuAdminTerm OBJECT-TYPE

SYNTAX INTEGER {
 unbind (1),
 termself (2),
 rshutd (3),
 poweroff (4)
 }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the desired method for
 deactivation of this LU. This value overrides the
 default method (snaNodeOperLuTermDefault) for this
 Node. For LU 6.2, only the value 'unbind (1)'
 applies.

unbind(1) - terminate the LU-LU session by sending
 an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending
 an SNA TERM-SELF

(Terminate Self) request on

the SSCP-LU session. The SSCP will inform the
 remote session LU partner to send an UNBIND
 request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending
 an SNA RSHUTD (Request ShutDown) request to

the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

A write operation to this object may immediately change the operational value reflected in snaLuOperTerm depending on the Agent implementation."

::= { snaLuAdminEntry 8 }

snaLuAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaLuAdminTable.

To activate a row, the Management Station sets the value to 'active (1)' or 'notReady (3)'.

Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaLuOperTable with snaLuOperState equal to 'inactive (1)'.

Row deletion can be Management Station

or Agent

initiated:

(a) The Management Station can set the value to 'destroy (6)' only when the value of snaLuOperState of this LU instance is 'inactive (1)'. The Agent will then delete the row corresponding to this LU instance from snaLuAdminTable and from snaLuOperTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a default period of 5 minutes.

(c) The Agent will not create a row with RowStatus equal to 'notReady (3)', after SNA system re-initialization (e.g., reboot)."

::= { snaLuAdminEntry 9 }

-- *****

-- The following table contains LU state dynamic parameters.

-- *****

snaLuOperTable OBJECT-TYPE

SYNTAX

SEQUENCE OF SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains dynamic runtime information and control variables relating to LUs.

Only objects which are common to all types of LUs are included in this table. This table augments the snaLuAdminTable."

::= { snaLu 2 }

snaLuOperEntry OBJECT-TYPE

SYNTAX SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains objects reflecting current information for an LU.

Each entry is created by the Agent. All entries have read-only access."

AUGMENTS { snaLuAdminEntry }

::= { snaLuOperTable 1 }

SnaLuOperEntry ::= SEQUENCE {

snaLuOperName

DisplayString,

snaLuOperSnaName

DisplayString,

snaLuOperType

INTEGER,

snaLuOperDepType

INTEGER,

snaLuOperLocalAddress

OCTET STRING,

snaLuOperDisplayModel

INTEGER,

snaLuOperTerm

INTEGER,

```

snaLuOperState
    INTEGER,
snaLuOperSessnCount
    Gauge32
}

```

snaLuOperName OBJECT-TYPE
 SYNTAX DisplayString (SIZE(0..48))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "User configurable name for this LU. If a name
 is not assigned, then this object contains a
 zero length string."
 ::= { snaLuOperEntry 1 }

snaLuOperSnaName OBJECT-TYPE
 SYNTAX DisplayString (SIZE(1..17))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The value identifies the current SNA LU name."
 ::= { snaLuOperEntry 2 }

snaLuOperType OBJECT-TYPE
 SYNTAX INTEGER {
 other(1),
 lu0(2),
 lu1(3),
 lu2(4),
 lu3(5),
 lu4(6),
 lu62(7),
 lu7(8)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The value identifies the current LU type."
 ::= { snaLuOperEntry 3 }

snaLuOperDepType OBJECT-TYPE
 SYNTAX INTEGER {
 dependent(1),
 independent(2)
 }
 MAX-ACCESS read-only
 STATUS current

DESCRIPTION

"The value identifies whether the LU is currently dependent or independent.

A write operation to this object will not change the operational value reflected in snaLuOperDepType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuOperEntry 4 }

snaLuOperLocalAddress

OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The local address for this LU is a byte with a value ranging from 0 to 254. For dependent LUs, this value ranges from 1 to 254; for independent LUs this value is always 0.

A write operation to this object will not change the operational value reflected in snaLuOperLocalAddress until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuOperEntry 5 }

snaLuOperDisplayModel OBJECT-TYPE

SYNTAX INTEGER {

invalid(1),
model2A(2),
model2B(3),
model3A(4),
model3B(5),
model4A(6),
model4B(7),
model5A(8),
model5B(9),
dynamic(10)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The screen model type of the terminal connected to the host. If this LU is not Type 2, then this object should contain the 'invalid(1)' value."

::= { snaLuOperEntry 6 }

snaLuOperTerm OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),
termself (2),
rshutd (3),
poweroff (4)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also

acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session."

::= { snaLuOperEntry 7 }

snaLuOperState OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),
active (2)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current operational state of this LU.

It has different meanings for dependent and independent LUs.

For dependent LUs the values indicate the following:

inactive (1) - LU didn't receive ACTLU, or
it received DACTLU, or received ACTLU and sent
negative response.

active (2) - LU received ACTLU and acknowledged
positively.

For independent LUs the values
indicate the following:
active (2) - the LU is defined and is able to send
and receive BIND.
inactive (1) - the LU has a session count equal
to 0."

::= { snaLuOperEntry 8 }

snaLuOperSessnCount OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active LU-LU sessions of this LU.

For the independent LU, if this object has value 0,
it indicates that LU is inactive."

::= { snaLuOperEntry 9 }

-- *****
-- The following table contains LU session status parameters.
-- *****

snaLuSessnTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuSessnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a table containing objects which describe the
operational state of LU sessions. Only objects which
are common to all types of LU sessions are included
in this table.

When a session's snaLuSessnOperState value changes to

'pendingBind (2)', then the corresponding entry
in the session table is created by the Agent.

When the session's snaLuSessnOperState value changes to
'unbound (1)', then the session will be removed from
the session table by the Agent."

::= { snaLu 3 }

snaLuSessnEntry OBJECT-TYPE

SYNTAX SnaLuSessnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains dynamic parameters for an LU-LU
session.

The indices identify the Node, local LU, and remote LU
for this session."

INDEX { snaNodeAdminIndex,
 snaLuAdminLuIndex,
 snaLuSessnRluIndex,
 snaLuSessnIndex }

::= { snaLuSessnTable 1 }

SnaLuSessnEntry ::= SEQUENCE {

 snaLuSessnRluIndex

 Integer32,

 snaLuSessnIndex

 Integer32,

 snaLuSessnLocalApplName

 DisplayString,

 snaLuSessnRemoteLuName

 DisplayString,

 snaLuSessnMaxSndRuSize

 INTEGER,

 snaLuSessnMaxRcvRuSize

 INTEGER,

 snaLuSessnSndPacingSize

 INTEGER,

 snaLuSessnRcvPacingSize

 INTEGER,

 snaLuSessnActiveTime

 TimeStamp,

 snaLuSessnAdminState

 INTEGER,

 snaLuSessnOperState

 INTEGER,

 snaLuSessnSenseData

 OCTET STRING,

```

snaLuSessnTerminationRu
    INTEGER,
snaLuSessnUnbindType
    OCTET STRING,
snaLuSessnLinkIndex
    Integer32
}

```

snaLuSessnRluIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value may be used to identify information about the session partner LU in a table of information about remote LUs. Such a table is not defined in this document. If a table of remote LU information is not implemented, or if the table is implemented but it does not contain information about the partner LU for a particular session (as for dependent LU-LU sessions) then this object will have a value of zero."

::= { snaLuSessnEntry 1 }

snaLuSessnIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the unique index of the session. It is recommended

that an Agent should not reuse the index of a deactivated session for a significant period of time (e.g., one week)."

::= { snaLuSessnEntry 2 }

snaLuSessnLocalApplName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the local application using this LU. If the local application is unknown, then this object contains a zero length string."

::= { snaLuSessnEntry 3 }

snaLuSessnRemoteLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For dependent LUs which are indicated by the
snaLuOperDepType object containing the value
'dependent (1)', this object contains the Primary
LU (PLU) name. For independent LUs,
this object contains the fully-qualified

remote LU

name of this 6.2 session.

A fully qualified name is an SNA NAU entity name
preceded by the NetId and a period as the delimiter."

::= { snaLuSessnEntry 4 }

snaLuSessnMaxSndRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum RU size used on this session for sending
RUs."

::= { snaLuSessnEntry 5 }

snaLuSessnMaxRcvRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum RU size used on this session for
receiving RUs."

::= { snaLuSessnEntry 6 }

snaLuSessnSndPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the send pacing window on this session."

::= {

snaLuSessnEntry 7 }

snaLuSessnRcvPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the receive pacing window on this
session."

::= { snaLuSessnEntry 8 }

snaLuSessnActiveTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)
when this session becomes active."

::= { snaLuSessnEntry 9 }

snaLuSessnAdminState OBJECT-TYPE

SYNTAX INTEGER {

unbound (1),

bound (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value indicates the desired operational state of
the session. This object is used to
change the operational state of the session.

A Management Station

can only change the operational

state of the session to 'unbound (1)'.

Session deactivation:

If a session is in the operational state
'bound (3)' then setting the value of this
object to 'unbound (1)' will initiate the
session shutdown.

If a session is in the operational state
'pendingBind (2)' then setting the value of this
object to 'unbound (1)' will initiate the session
shutdown.

If a session is in the operational state
'pendingUnbind (4)' for an abnormally long period
of time (e.g., three minutes) then setting the value
of this object to 'unbound (1)' will change the
session operational state to 'unbound (1)'.

Note: for dependent LUs, deactivating the session is
the same as deactivating

the LU."

::= { snaLuSessnEntry 10 }

snaLuSessnOperState OBJECT-TYPE

SYNTAX INTEGER {

```
unbound (1),
pendingBind (2),
bound (3),
pendingUnbind (4)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the current operational state of the session.

'unbound (1)' - session has been unbound;
in this state it will be removed from the session table by the Agent.

'pendingBind (2)' - this state has different meanings for dependent and independent LUs; for dependent LU - waiting for BIND from the host, for independent LU - waiting for BIND response. When a session enters this state, the corresponding entry in the

session table is created by the Agent.

'bound (3)' - session has been successfully bound.

'pendingUnbind (4)' - session enters this state when an UNBIND is sent and before the rsp(UNBIND) is received."

::= { snaLuSessnEntry 11 }

snaLuSessnSenseData OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..8))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the sense code when there is a BIND failure. It is taken from the negative BIND response or UNBIND request.

This is displayed as 8 hexadecimal digits."

::= { snaLuSessnEntry 12 }

snaLuSessnTerminationRu OBJECT-TYPE

SYNTAX INTEGER {

```
other (1),
bindFailure (2),
unbind (3)
}
```

MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The value identifies the SNA RU that terminated the session.
 If the session is not in the unbound state, this object has a value of 'other (1)'."
 ::= { snaLuSessnEntry 13 }

snaLuSessnUnbindType OBJECT-TYPE
 SYNTAX OCTET STRING (SIZE(0..1))
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "If the session is in the unbound state, and it was terminated by an UNBIND, then this object contains the UNBIND type value (byte 1 of the UNBIND RU); otherwise the string is null."
 ::= { snaLuSessnEntry 14 }

snaLuSessnLinkIndex OBJECT-TYPE
 SYNTAX Integer32
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "This value identifies the link over which the session passes. It is an index into snaNodeLinkAdminTable. If the index value is not known,
 the value of this
 object shall be zero."
 ::= { snaLuSessnEntry 15 }

```
-- *****
-- The following table contains LU sessions statistics dynamic
-- parameters.
-- *****
```

snaLuSessnStatsTable OBJECT-TYPE
 SYNTAX SEQUENCE OF SnaLuSessnStatsEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains dynamic statistics information relating to LU sessions.
 The entries in this table augment the entries in the snaLuSessnTable and cannot be created by

a Management Station."
::= { snaLu 4 }

snaLuSessnStatsEntry OBJECT-TYPE

SYNTAX SnaLuSessnStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains statistics information for an LU session.

Each entry is created by the Agent.

Objects in this table have read-only access.

Each session from snaLuSessnTable

has one entry in this table."

AUGMENTS { snaLuSessnEntry }

::= { snaLuSessnStatsTable 1 }

SnaLuSessnStatsEntry ::= SEQUENCE {

snaLuSessnStatsSentBytes

Counter32,

snaLuSessnStatsReceivedBytes

Counter32,

snaLuSessnStatsSentRus

Counter32,

snaLuSessnStatsReceivedRus

Counter32,

snaLuSessnStatsSentNegativeResps

Counter32,

snaLuSessnStatsReceivedNegativeResps

Counter32

}

snaLuSessnStatsSentBytes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of bytes sent by the local LU."

::= { snaLuSessnStatsEntry 1 }

snaLuSessnStatsReceivedBytes OBJECT-TYPE

SYNTAX

Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of bytes received by the local LU."

::= { snaLuSessnStatsEntry 2 }

snaLuSessnStatsSentRus OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RUs sent by the local LU."

::= { snaLuSessnStatsEntry 3 }

snaLuSessnStatsReceivedRus OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RUs received by the local LU."

::= { snaLuSessnStatsEntry 4 }

snaLuSessnStatsSentNegativeResps OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of negative responses sent by the
local LU."

::= { snaLuSessnStatsEntry 5 }

snaLuSessnStatsReceivedNegativeResps OBJECT-TYPE

SYNTAX

Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of negative responses received by the
local LU."

::= { snaLuSessnStatsEntry 6 }

```
-- *****
-- Traps
-- *****
```

snaLuTraps OBJECT IDENTIFIER ::= { snaLu 5 }

snaLuStateChangeTrap NOTIFICATION-TYPE

OBJECTS { snaLuOperName,

snaLuOperSnaName,

snaLuOperState }

STATUS current

DESCRIPTION

"This trap indicates that the operational state (i.e., snaLuOperState value) of the LU has changed. The value of snaLuOperName indicates the name of the LU. The value of snaLuOperSnaName indicates the SNA name of LU. The value of snaLuOperState indicates the current state after

change."

::= { snaLuTraps 1 }

snaLuSessnBindFailTrap NOTIFICATION-TYPE

OBJECTS { snaLuSessnLocalApplName,
snaLuSessnRemoteLuName,
snaLuSessnOperState,
snaLuSessnSenseData }

STATUS current

DESCRIPTION

"This trap indicates the failure of a BIND. The value of snaLuSessnLocalApplName indicates the local application name. The value of snaLuSessnPartnerName indicates the partner name. The value of snaLuSessnOperState indicates the current state after change. The value of snaLuSessnBindFailureReason indicates the failure reason. The Agent should not generate more than 1 trap of this type per minute to minimize the level of management traffic on the network."

::= { snaLuTraps 2 }

-- *****

--

snaMgtTools group

--

-- Currently this group contains only one table.

-- *****

-- *****

-- The following table contains Response Time Monitoring (RTM)
-- configuration information and statistics for LU Type 2s.
-- RTM supports the capability to measure and report end-user
-- response times for dependent LUs. When the RTM state of an LU
-- is 'on', response times for each LU transaction are monitored.
-- A set of ranges is defined (e.g., Range 1 includes the number of

- transactions with response times less than 1 second) using the
- "boundary" definitions (e.g., boundary #2 is defined as 3 seconds).
- A set of counters (one per range) identifies
- the number of transactions within each response time range.

-- *****

snaLuRtmTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuRtmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains Response Time Monitoring (RTM) information relating to an LU (Type 2). Each entry corresponds to an LU 2 entry in snaLuAdminTable."

::= { snaMgtTools 1 }

snaLuRtmEntry OBJECT-TYPE

SYNTAX SnaLuRtmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains RTM information for an LU (Type 2). Each entry is created by the Agent."

INDEX { snaLuRtmPuIndex, snaLuRtmLuIndex }

::= { snaLuRtmTable 1 }

SnaLuRtmEntry ::= SEQUENCE {

snaLuRtmPuIndex

Integer32,

snaLuRtmLuIndex

Integer32,

snaLuRtmState

INTEGER,

snaLuRtmStateTime

TimeStamp,

snaLuRtmDef

INTEGER,

snaLuRtmBoundary1

Integer32,

snaLuRtmBoundary2

Integer32,

snaLuRtmBoundary3

Integer32,

snaLuRtmBoundary4

Integer32,

snaLuRtmCounter1

Counter32,

```

snaLuRtmCounter2
    Counter32,
snaLuRtmCounter3
    Counter32,
snaLuRtmCounter4
    Counter32,
snaLuRtmOverFlows
    Counter32,
snaLuRtmObjPercent
    Integer32,
snaLuRtmObjRange
    INTEGER,
snaLuRtmNumTrans
    Integer32,
snaLuRtmLastRspTime
    Integer32,
snaLuRtmAvgRspTime
    Integer32
}

```

snaLuRtmPuIndex OBJECT-TYPE

```

SYNTAX Integer32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The value identifies the PU 2.0 with which this LU is
    associated."
 ::= { snaLuRtmEntry 1 }

```

snaLuRtmLuIndex OBJECT-TYPE

```

SYNTAX
Integer32
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The value uniquely identifies an LU in a PU 2.0."
 ::= { snaLuRtmEntry 2 }

```

snaLuRtmState OBJECT-TYPE

```

SYNTAX INTEGER {
    off(1),
    on(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value indicates the current RTM state of an LU."
 ::= { snaLuRtmEntry 3 }

```

snaLuRtmStateTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)
when this session's RTM state (e.g., snaLuRtmState)
changes value."

::= { snaLuRtmEntry 4 }

snaLuRtmDef OBJECT-TYPE

SYNTAX INTEGER {

firstChar(1),

kb(2),

cdeb(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the mode of measurement for this
RTM request. The values have following meaning:
firstChar(1) - time to first character on screen
kb(2) - time to keyboard usable by operator
cdeb(3) - time to Change Direction/End Bracket."

::= { snaLuRtmEntry 5 }

snaLuRtmBoundary1 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the first boundary
in units of 1/10th of a second."

::= { snaLuRtmEntry 6 }

snaLuRtmBoundary2 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the second boundary
in units of 1/10th of a second."

::= { snaLuRtmEntry 7 }

snaLuRtmBoundary3 OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This object contains the value of the third boundary
 in units of 1/10th of a second."
::= { snaLuRtmEntry 8 }

snaLuRtmBoundary4 OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This object contains the value of the fourth boundary
 in units of 1/10th of a second."
::= { snaLuRtmEntry 9 }

snaLuRtmCounter1 OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates the number of transactions which
 fall in the range specified by the first boundary."
::= { snaLuRtmEntry 10 }

snaLuRtmCounter2 OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates
the number of transactions which
 fall in the range specified by the second boundary."
::= { snaLuRtmEntry 11 }

snaLuRtmCounter3 OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "This value indicates the number of transactions which
 fall in the range specified by the third boundary."
::= { snaLuRtmEntry 12 }

snaLuRtmCounter4 OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which fall in the range specified by the fourth boundary."

::= { snaLuRtmEntry 13 }

snaLuRtmOverFlows OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which exceed the highest range specified by

the

boundaries."

::= { snaLuRtmEntry 14 }

snaLuRtmObjPercent OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the desired percentage of transactions which should be under a designated boundary range indicated by snaLuRtmObjRange."

::= { snaLuRtmEntry 15 }

snaLuRtmObjRange OBJECT-TYPE

SYNTAX INTEGER {

other(1),

range1(2),

range2(3),

range3(4),

range4(5),

range5(6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the designated boundary range to which the snaLuRtmObject refers.

The values have the following meanings:

other(1) - not specified

range1(2) - less than boundary

1

range2(3) - between boundary 1 and 2

range3(4) - between boundary 2 and 3

range4(5) - between boundary 3 and 4

```

        range5(6) - greater than boundary 4."
 ::= { snaLuRtmEntry 16 }

snaLuRtmNumTrans OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This value indicates the total number of transactions
        executed since the RTM monitoring began (i.e.,
        snaLuRtmState changed to 'on(2)') for this LU."
 ::= { snaLuRtmEntry 17 }

snaLuRtmLastRspTime OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This value indicates the response time for the last
        transaction in units of 1/10th of a second."
 ::= { snaLuRtmEntry 18 }

snaLuRtmAvgRspTime OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This value indicates the average response time for all
        transactions in units of 1/10th of a second."
 ::= { snaLuRtmEntry 19 }

-- *****
-- Conformance information
-- *****

snanauConformance    OBJECT IDENTIFIER ::= { snanauMIB 2 }

snanauCompliances    OBJECT IDENTIFIER ::= {snanauConformance 1 }
snanauGroups         OBJECT IDENTIFIER ::= {snanauConformance 2 }

-- Compliance statements
snanauCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for the SNMPv2 entities
        which implement the snanau MIB."
    MODULE -- this module

```



```
-- Unconditionally mandatory groups
    MANDATORY-GROUPS { snaNodeGroup,
        snaLuGroup,
        snaSessionGroup
    }

-- Conditionally mandatory groups
    GROUP snaPu20Group
    DESCRIPTION
        "The snaPu20Group is mandatory only for those
        entities which implement PU type 2.0"
    GROUP snaMgtToolsRtmGroup
    DESCRIPTION
        "The snaMgtToolsGroup is mandatory only for
        those entities which implement LU type 2
        and RTM."

-- Refinement of requirements for objects access.
-- The Agent which does not implement row creation for
-- snaNodeAdminTable, snaNodeLinkAdminTable and
-- snaLuAdminTable must at least accept
-- objects modification (read-write access instead of
-- read-create).
```

```
OBJECT snaNodeAdminName
MIN-ACCESS read-write
DESCRIPTION
    "An Agent is required to implement read-write
    access to this object."
```

```
OBJECT snaNodeAdminType
MIN-ACCESS read-write
DESCRIPTION
    "An Agent is required to implement read-write
    access to this object."
```

```
OBJECT snaNodeAdminXidFormat
MIN-ACCESS read-write
DESCRIPTION
    "An Agent is required to implement read-write
    access to this object."
```

```
OBJECT snaNodeAdminBlockNum
MIN-ACCESS read-write
DESCRIPTION
    "An Agent is required to implement read-write
    access to this object."
```

OBJECT snaNodeAdminIdNum

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminEnablingMethod

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminLuTermDefault

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminMaxLu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminHostDescription

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminStopMethod

MIN-ACCESS read-write

DESCRIPTION

"An
Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminState

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeLinkAdminSpecific

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write

access to this object."

OBJECT snaNodeLinkAdminMaxPiu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this

object."

OBJECT snaLuAdminSnaName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminDepType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminLocalAddress

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminDisplayModel

MIN-ACCESS

read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminTerm

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write
access to this object."

::= { snanauCompliances 1 }

-- Units of conformance

```
snaNodeGroup OBJECT-GROUP
  OBJECTS { snaNodeAdminName,
    snaNodeAdminType,
    snaNodeAdminXidFormat,
    snaNodeAdminBlockNum,
    snaNodeAdminIdNum,
    snaNodeAdminEnablingMethod,
    snaNodeAdminLuTermDefault,
    snaNodeAdminMaxLu,
    snaNodeAdminHostDescription,
    snaNodeAdminStopMethod,
    snaNodeAdminState,
    snaNodeAdminRowStatus,
    snaNodeAdminTableLastChange,
    snaNodeOperName,
    snaNodeOperType,
    snaNodeOperXidFormat,
    snaNodeOperBlockNum,
    snaNodeOperIdNum,
    snaNodeOperEnablingMethod,
    snaNodeOperLuTermDefault,
    snaNodeOperMaxLu,
    snaNodeOperHostDescription,
    snaNodeOperStopMethod,
    snaNodeOperState,
    snaNodeOperHostSscpId,
    snaNodeOperStartTime,
    snaNodeOperLastStateChange,
    snaNodeOperActFailures,
    snaNodeOperActFailureReason,
    snaNodeOperTableLastChange,
    snaNodeLinkAdminSpecific,
    snaNodeLinkAdminMaxPiu,
    snaNodeLinkAdminRowStatus,
    snaNodeLinkAdminTableLastChange,
    snaNodeLinkOperSpecific,
    snaNodeLinkOperMaxPiu,
    snaNodeLinkOperTableLastChange }
  STATUS current
  DESCRIPTION
```

"A collection of objects providing the
instrumentation of SNA nodes."
::= { snanauGroups 1 }

snaLuGroup OBJECT-GROUP
OBJECTS { snaLuAdminName,
snaLuAdminSnaName,
snaLuAdminType,
snaLuAdminDepType,
snaLuAdminLocalAddress,
snaLuAdminDisplayModel,
snaLuAdminTerm,
snaLuAdminRowStatus,
snaLuOperName,
snaLuOperSnaName,
snaLuOperType,
snaLuOperDepType,
snaLuOperLocalAddress,
snaLuOperDisplayModel,
snaLuOperTerm,
snaLuOperState,
snaLuOperSessnCount }
STATUS current
DESCRIPTION
"A collection of objects providing the
instrumentation of SNA LUs."
::= { snanauGroups 2 }

snaSessionGroup OBJECT-GROUP
OBJECTS { snaLuSessnRluIndex,

snaLuSessnIndex,
snaLuSessnLocalApplName,
snaLuSessnRemoteLuName,
snaLuSessnMaxSndRuSize,
snaLuSessnMaxRcvRuSize,
snaLuSessnSndPacingSize,
snaLuSessnRcvPacingSize,
snaLuSessnActiveTime,
snaLuSessnAdminState,
snaLuSessnOperState,
snaLuSessnSenseData,
snaLuSessnTerminationRu,
snaLuSessnUnbindType,
snaLuSessnLinkIndex,
snaLuSessnStatsSentBytes,
snaLuSessnStatsReceivedBytes,

```

    snaLuSessnStatsSentRus,
    snaLuSessnStatsReceivedRus,
    snaLuSessnStatsSentNegativeResps,
    snaLuSessnStatsReceivedNegativeResps }
STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of SNA sessions."
::= { snanauGroups 3 }

```

snaPu20Group

OBJECT-GROUP

```

OBJECTS { snaPu20StatsSentBytes,
    snaPu20StatsReceivedBytes,
    snaPu20StatsSentPius,
    snaPu20StatsReceivedPius,
    snaPu20StatsSentNegativeResps,
    snaPu20StatsReceivedNegativeResps,
    snaPu20StatsActLus,
    snaPu20StatsInActLus,
    snaPu20StatsBindLus }
STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of PU 2.0."
::= { snanauGroups 4 }

```

snaMgtToolsRtmGroup OBJECT-GROUP

```

OBJECTS { snaLuRtmState,
    snaLuRtmStateTime,
    snaLuRtmDef,
    snaLuRtmBoundary1,
    snaLuRtmBoundary2,
    snaLuRtmBoundary3,
    snaLuRtmBoundary4,
    snaLuRtmCounter1,
    snaLuRtmCounter2,
    snaLuRtmCounter3,
    snaLuRtmCounter4,
    snaLuRtmOverFlows,
    snaLuRtmObjPercent,
    snaLuRtmObjRange,
    snaLuRtmNumTrans,
    snaLuRtmLastRspTime,
    snaLuRtmAvgRspTime }
STATUS current
DESCRIPTION
    "A collection of objects providing the

```

```

        instrumentation of RTM for SNA LU 2.0."
    ::= { snanauGroups 5 }

-- end of conformance statement

END

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

Modem-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
    Counter32, Integer32 FROM SNMPv2-SMI
    DisplayString FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
    mib-2 FROM RFC1213-MIB;

mdmMIB MODULE-IDENTITY
    LAST-UPDATED "9406120000Z"
    ORGANIZATION "IETF Modem Management Working Group"
    CONTACT-INFO
        "      Steven Waldbusser
        Postal: Carnegie Mellon University
              5000 Forbes Ave
              Pittsburgh, PA, 15213
              US

        Tel: +1 412 268 6628
        Fax: +1 412 268 4987
        E-mail: waldbusser@cmu.edu"
    DESCRIPTION
        "The MIB module for management of dial-up modems."
    ::= { mdmMib 1 }

mdmMib OBJECT IDENTIFIER ::= { mib-2 38 }

mdmMIBObjects OBJECT IDENTIFIER ::= { mdmMIB 1 }

-- conformance information

mdmConformance OBJECT IDENTIFIER

```

```

::= { mdmMIB 2 }

mdmCompliances OBJECT IDENTIFIER ::= { mdmConformance 1 }
mdmGroups      OBJECT IDENTIFIER ::= { mdmConformance 2 }

-- units of conformance

mdmIDGroup  OBJECT-GROUP
  OBJECTS { mdmIDManufacturerOID, mdmIDProductDetails }
  STATUS   current
  DESCRIPTION
    "A collection of objects that identify the manufacturer and
    model information for a modem."
  ::= { mdmGroups 1 }

mdmLineInterfaceGroup  OBJECT-GROUP
  OBJECTS { mdmLineCarrierLossTime,
    mdmLineState, mdmLineCapabilitiesID,
    mdmLineCapabilitiesEnableRequested,
    mdmLineCapabilitiesEnableGranted }
  STATUS   current
  DESCRIPTION
    "A collection of objects that describe the configuration and
    state of the modem's line interface."
  ::= { mdmGroups 2 }

mdmDTEInterfaceGroup  OBJECT-GROUP
  OBJECTS { mdmDTEActionDTROnToOff, mdmDTEActionDTROffToOn,
    mdmDTESyncTimingSource, mdmDTESyncAsyncMode,

    mdmDTEInactivityTimeout }
  STATUS   current
  DESCRIPTION
    "A collection of objects that describe the configuration and
    state of the modem's DTE interface."
  ::= { mdmGroups 3 }

mdmCallControlGroup  OBJECT-GROUP
  OBJECTS { mdmCCRingsBeforeAnswer,
    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

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 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"
 ::= { 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 }

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):
* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-MIB
No license file was found, but licenses were detected in source scan.

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

```

IMPORTS

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

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

CONTACT-INFO

"Postal: Internet Assigned Numbers Authority
Internet Corporation for Assigned Names
and Numbers
4676 Admiralty Way, Suite 330
Marina del Rey, CA 90292-6601
USA

Tel: +1 310-823-9358

E-Mail: iana&iana.org"

DESCRIPTION

"The MIB module defines the ITU Alarm
textual convention for objects expected to require
regular extension.

Copyright (C) The Internet Society (2004). The
initial version

of this MIB module was published

in RFC 3877. For full legal notices see the RFC
itself. Supplementary information may be available on:
<http://www.ietf.org/copyrights/ianamib.html>"

REVISION "200409090000Z"

DESCRIPTION

"Initial version, published as RFC 3877."

::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.
IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are
reserved

for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a first-come, first served basis and will be assigned enumeration values starting with 1025.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

While some effort will be taken to ensure that new probable causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more experts to help review requests.

See <http://www.iana.org>"

REFERENCE

"ITU Recommendation M.3100,
'Generic Network Information
Model', 1995
ITU Recommendation X.733, 'Information Technology - Open
Systems Interconnection - System Management: Alarm
Reporting Function', 1992
ITU Recommendation X.736, 'Information Technology - Open
Systems Interconnection - System Management: Security
Alarm Reporting Function', 1992"

SYNTAX INTEGER

```
{  
-- The following probable causes were defined in M.3100  
aIS (1),  
callSetUpFailure (2),  
degradedSignal (3),  
farEndReceiverFailure (4),  
framingError (5),  
lossOfFrame (6),  
lossOfPointer (7),  
lossOfSignal (8),  
payloadTypeMismatch (9),  
transmissionError (10),  
remoteAlarmInterface (11),  
excessiveBER (12),
```

- pathTraceMismatch (13),
 - unavailable (14),
 - signalLabelMismatch (15),
 - lossOfMultiFrame (16),
 - receiveFailure (17),
 - transmitFailure (18),
 - modulationFailure (19),
 - demodulationFailure (20),
 - broadcastChannelFailure (21),
 - connectionEstablishmentError (22),
 - invalidMessageReceived (23),
 - localNodeTransmissionError (24),
 - remoteNodeTransmissionError (25),
 - routingFailure (26),
- Values 27-50 are reserved for communications alarm related
- probable causes
- The following are used with equipment alarm.
 - backplaneFailure (51),
 - dataSetProblem (52),
 - equipmentIdentifierDuplication (53),
 - externalIFDeviceProblem (54),
 - lineCardProblem (55),
 - multiplexerProblem (56),
 - nEIdentifierDuplication
- (57),
 - powerProblem (58),
 - processorProblem (59),
 - protectionPathFailure (60),
 - receiverFailure (61),
 - replaceableUnitMissing (62),
 - replaceableUnitTypeMismatch (63),
 - synchronizationSourceMismatch (64),
 - terminalProblem (65),
 - timingProblem (66),
 - transmitterFailure (67),
 - trunkCardProblem (68),
 - replaceableUnitProblem (69),
 - realTimeClockFailure (70),
- An equipment alarm to be issued if the system detects that the
- real time clock has failed
 - antennaFailure (71),
 - batteryChargingFailure (72),
 - diskFailure (73),
 - frequencyHoppingFailure (74),
 - iODeviceError (75),
 - lossOfSynchronisation (76),
 - lossOfRedundancy (77),
 - powerSupplyFailure (78),

- signalQualityEvaluationFailure (79),
- tranceiverFailure (80),
- protectionMechanismFailure (81),
- protectingResourceFailure (82),
- Values 83-100 are reserved for equipment alarm related probable
- causes
- The following are used with environmental alarm.
 - airCompressorFailure (101),
 - airConditioningFailure (102),
 - airDryerFailure (103),
 - batteryDischarging (104),
 - batteryFailure (105),
 - commercialPowerFailure (106),
 - coolingFanFailure (107),
 - engineFailure (108),
 - fireDetectorFailure (109),
 - fuseFailure (110),
 - generatorFailure (111),
 - lowBatteryThreshold (112),
 - pumpFailure (113),
 - rectifierFailure (114),
 - rectifierHighVoltage (115),
 - 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):

* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANA-ITU-ALARM-TC-MIB

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

SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
TimeTicks, Counter32, snmpModules, mib-2
FROM SNMPv2-SMI
DisplayString, TestAndIncr, TimeStamp
```

```
FROM SNMPv2-TC
```

```
MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
FROM SNMPv2-CONF;
```

snmpMIB MODULE-IDENTITY

```
LAST-UPDATED "200210160000Z"
```

```
ORGANIZATION "IETF SNMPv3 Working Group"
```

```
CONTACT-INFO
```

```
"WG-EMail: snmpv3@lists.tislabs.com
```

```
Subscribe: snmpv3-request@lists.tislabs.com
```

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Co-Chair: Russ Mundy
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Network Associates Laboratories
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postal: 15204 Omega Drive, Suite 300
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DESCRIPTION

"The MIB module for SNMP entities.

Copyright (C) The Internet Society (2002). This
version of this MIB module is part of RFC 3418;
see the RFC itself for full legal notices.

"

REVISION "200210160000Z"

DESCRIPTION

"This revision of this MIB module was published as
RFC 3418."

REVISION "199511090000Z"

DESCRIPTION

"This revision of this MIB module was published as
RFC 1907."

REVISION "199304010000Z"

DESCRIPTION

"The initial revision of this MIB module was published
as RFC 1450."

::= { snmpModules 1 }

snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

-- ::= { snmpMIBObjects 1 } this OID is obsolete
-- ::= { snmpMIBObjects 2 } this OID is obsolete
-- ::= { snmpMIBObjects 3 } this OID is obsolete

-- the System group

--

-- a collection of objects common to all managed systems.

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

sysDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "A textual description of the entity. This value should
 include the full name and version identification of
 the system's hardware type, software operating-system,
 and networking software."
::= { system 1 }

sysObjectID

OBJECT-TYPE
SYNTAX OBJECT IDENTIFIER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
 "The vendor's authoritative identification of the
 network management subsystem contained in the entity.
 This value is allocated within the SMI enterprises
 subtree (1.3.6.1.4.1) and provides an easy and
 unambiguous means for determining 'what kind of box' is
 being managed. For example, if vendor 'Flintstones,
 Inc.' was assigned the subtree 1.3.6.1.4.1.424242,
 it could assign the identifier 1.3.6.1.4.1.424242.1.1
 to its 'Fred Router'."
::= { system 2 }

sysUpTime OBJECT-TYPE

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

sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
 "The textual identification of the contact person for
 this managed node, together with information on how
 to contact this person. If no contact information is

known, the value is the zero-length string."
::= { system 4 }

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name. If the name is unknown, the value is the zero-length string."

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The physical location of this node (e.g., 'telephone closet, 3rd floor'). If the location is unknown, the value is the zero-length string."

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A value which indicates the set of services that this entity may potentially offer. The value is a sum.

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

layer	functionality
1	physical (e.g., repeaters)
2	datalink/subnetwork (e.g., bridges)

- 3 internet (e.g., supports the IP)
- 4 end-to-end (e.g., supports the TCP)
- 7 applications (e.g., supports the SMTP)

For systems including OSI protocols, layers 5 and 6
may also be counted."

::= { system 7 }

-- object resource information

--

-- a collection of objects which describe the SNMP entity's

-- (statically and dynamically configurable) support of

-- various MIB modules.

sysORLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time of the most recent
change in state or value of any instance of sysORID."

::= { system 8 }

sysORTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the capabilities of
the local SNMP application acting as a command
responder with respect to various MIB modules.
SNMP entities having dynamically-configurable support
of MIB modules will have a dynamically-varying number
of conceptual rows."

::= { system 9 }

sysOREntry OBJECT-TYPE

SYNTAX SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) in the sysORTable."

INDEX { sysORIndex }

::= { sysORTable 1 }

SysOREntry ::= SEQUENCE {

```

sysORIndex    INTEGER,
sysORID       OBJECT IDENTIFIER,
sysORDescr    DisplayString,
sysORUpTime   TimeStamp
}

```

sysORIndex OBJECT-TYPE

SYNTAX INTEGER (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The auxiliary variable used for identifying instances
of the columnar

objects in the sysORTable."

::= { sysOREntry 1 }

sysORID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An authoritative identification of a capabilities
statement with respect to various MIB modules supported
by the local SNMP application acting as a command
responder."

::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of the capabilities identified
by the corresponding instance of sysORID."

::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time this conceptual
row was last instantiated."

::= { sysOREntry 4 }

-- the SNMP group
--
-- a collection of objects providing basic instrumentation
and
-- control of an SNMP entity.

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

snmpInPkts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of messages delivered to the SNMP
entity from the transport service."

::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of SNMP messages which were delivered
to the SNMP entity and were for an unsupported SNMP
version."

::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of community-based SNMP messages (for
example, SNMPv1) delivered to the SNMP entity which
used an SNMP community name not known to said entity.
Also, implementations which authenticate community-based
SNMP messages using check(s) in addition to matching
the community name (for example, by also checking
whether the message originated from a transport address
allowed to use a specified community name) MAY include
in this value the number of messages which failed the
additional check(s). It is strongly RECOMMENDED that

the documentation for any security model which is used
to authenticate community-based SNMP messages specify

the precise conditions that contribute to this value."
 ::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which represented an SNMP operation that was not allowed for the SNMP community named in the message. The precise conditions under which this counter is incremented (if at all) depend on how the SNMP entity implements its access control mechanism and how its applications interact with that access control mechanism. It is strongly RECOMMENDED that the documentation for any access control mechanism which is used to control access to and visibility of MIB instrumentation specify the precise conditions that contribute to this value."

::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of ASN.1 or BER errors encountered by the SNMP entity when decoding received SNMP messages."

::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the SNMP entity is permitted to generate authenticationFailure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authenticationFailure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant across re-initializations of the network management system."

::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs (such as
GetRequest-PDUs, GetNextRequest-PDUs,
GetBulkRequest-PDUs, SetRequest-PDUs, and
InformRequest-PDUs) delivered to the SNMP entity which
were silently dropped because the size of a reply
containing an alternate Response Class PDU (such as a

Response-PDU) with an empty variable-bindings field
was greater than either a local constraint or the
maximum message size associated with the originator of
the request."

::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs
(such as GetRequest-PDUs, GetNextRequest-PDUs,
GetBulkRequest-PDUs, SetRequest-PDUs, and
InformRequest-PDUs) delivered to the SNMP entity which
were silently dropped because the transmission of
the (possibly translated) message to a proxy target
failed in a manner (other than a time-out) such that
no Response Class PDU (such as a Response-PDU) could
be returned."

::= { snmp 32 }

-- information for notifications

--

-- a collection of objects which allow the SNMP entity, when
-- supporting a notification
originator application,
-- to be configured to generate SNMPv2-Trap-PDUs.

snmpTrap OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }

snmpTrapOID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION

"The authoritative identification of the notification currently being sent. This variable occurs as the second varbind in every SNMPv2-Trap-PDU and InformRequest-PDU."

::= { snmpTrap 1 }

-- ::= { snmpTrap 2 } this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE
SYNTAX OBJECT IDENTIFIER
MAX-ACCESS accessible-for-notify
STATUS current
DESCRIPTION

"The authoritative identification of the enterprise associated with the trap currently being sent. When an SNMP proxy agent is mapping an RFC1157 Trap-PDU into a SNMPv2-Trap-PDU, this variable occurs as the last varbind."

::= { snmpTrap
3 }

-- ::= { snmpTrap 4 } this OID is obsolete

-- well-known traps

snmpTraps OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE
STATUS current
DESCRIPTION

"A coldStart trap signifies that the SNMP entity, supporting a notification originator application, is reinitializing itself and that its configuration may have been altered."

::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE
STATUS current
DESCRIPTION

"A warmStart trap signifies that the SNMP entity,

supporting a notification originator application,
 is reinitializing itself such that its configuration
 is unaltered."
 ::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }
 -- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }
 -- are defined in RFC 2863 [RFC2863]

authenticationFailure NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"An

authenticationFailure trap signifies that the SNMP
 entity has received a protocol message that is not
 properly authenticated. While all implementations
 of SNMP entities MAY be capable of generating this
 trap, the snmpEnableAuthenTraps object indicates
 whether this trap will be generated."

::= { snmpTraps 5 }

-- Note the egpNeighborLoss notification is defined
 -- as { snmpTraps 6 } in RFC 1213

-- the set group
 --
 -- a collection of objects which allow several cooperating
 -- command generator applications to coordinate their use of the
 -- set operation.

snmpSet OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }

snmpSetSerialNo OBJECT-TYPE

SYNTAX TestAndIncr

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An advisory lock used to allow several cooperating
 command generator applications to coordinate their
 use of the SNMP set operation.

This
 object is used for coarse-grain coordination.
 To achieve fine-grain coordination, one or more similar
 objects might be defined within each MIB group, as
 appropriate."

```

::= { snmpSet 1 }

-- conformance information

snmpMIBConformance
    OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
    OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }

-- compliance statements

-- ::= { snmpMIBCompliances 1 }    this OID is obsolete
snmpBasicCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The compliance statement for SNMPv2 entities which
        implement the SNMPv2 MIB.

        This compliance statement is replaced by
        snmpBasicComplianceRev2."
    MODULE -- this module
        MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
            snmpBasicNotificationsGroup }

    GROUP snmpCommunityGroup
    DESCRIPTION
        "This group is mandatory for SNMPv2 entities which
        support community-based authentication."

::= { snmpMIBCompliances 2 }

snmpBasicComplianceRev2 MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for SNMP entities which
        implement this MIB module."
    MODULE -- this module
        MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
            snmpBasicNotificationsGroup }

    GROUP snmpCommunityGroup
    DESCRIPTION
        "This group is mandatory for SNMP entities which

```

support community-based authentication."

GROUP snmpWarmStartNotificationGroup

DESCRIPTION

"This group is mandatory for an SNMP entity which supports command responder applications, and is able to reinitialize itself such that its configuration is unaltered."

::= { snmpMIBCompliances
3 }

-- units of conformance

-- ::= { snmpMIBGroups 1 } this OID is obsolete
-- ::= { snmpMIBGroups 2 } this OID is obsolete
-- ::= { snmpMIBGroups 3 } this OID is obsolete

-- ::= { snmpMIBGroups 4 } this OID is obsolete

snmpGroup OBJECT-GROUP

OBJECTS { snmpInPkts,
 snmpInBadVersions,
 snmpInASNParseErrs,
 snmpSilentDrops,
 snmpProxyDrops,
 snmpEnableAuthenTraps }

STATUS current

DESCRIPTION

"A collection of objects providing basic instrumentation and control of an SNMP entity."

::= { snmpMIBGroups 8 }

snmpCommunityGroup OBJECT-GROUP

OBJECTS { snmpInBadCommunityNames,
 snmpInBadCommunityUses }

STATUS current

DESCRIPTION

"A collection of objects providing basic instrumentation of a SNMP entity which supports community-based authentication."

::= { snmpMIBGroups 9 }

snmpSetGroup

OBJECT-GROUP

OBJECTS { snmpSetSerialNo }

STATUS current

DESCRIPTION

"A collection of objects which allow several cooperating command generator applications to coordinate their use of the set operation."

::= { snmpMIBGroups 5 }

systemGroup OBJECT-GROUP

OBJECTS { sysDescr, sysObjectID, sysUpTime,
sysContact, sysName, sysLocation,
sysServices,
sysORLastChange, sysORID,
sysORUpTime, sysORDescr }

STATUS current

DESCRIPTION

"The system group defines objects which are common to all managed systems."

::= { snmpMIBGroups 6 }

snmpBasicNotificationsGroup NOTIFICATION-GROUP

NOTIFICATIONS { coldStart, authenticationFailure }

STATUS current

DESCRIPTION

"The basic notifications implemented by an SNMP entity supporting command responder applications."

::= { snmpMIBGroups 7 }

snmpWarmStartNotificationGroup

NOTIFICATION-GROUP

NOTIFICATIONS { warmStart }

STATUS current

DESCRIPTION

"An additional notification for an SNMP entity supporting command responder applications, if it is able to reinitialize itself such that its configuration is unaltered."

::= { snmpMIBGroups 11 }

snmpNotificationGroup OBJECT-GROUP

OBJECTS { snmpTrapOID, snmpTrapEnterprise }

STATUS current

DESCRIPTION

"These objects are required for entities which support notification originator applications."

::= { snmpMIBGroups 12 }

-- definitions in RFC 1213 made obsolete by the inclusion of a
-- subset of the snmp group in this MIB

snmpOutPkts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Messages which were
passed from the SNMP protocol entity to the
transport service."

::= { snmp 2 }

-- { snmp 7 } is not used

snmpInTooBigs

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were
delivered to the SNMP protocol entity and for
which the value of the error-status field was
'tooBig'."

::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were
delivered to the SNMP protocol entity and for
which the value of the error-status field was
'noSuchName'."

::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were
delivered to the SNMP protocol entity and for
which the value of the error-status field was

badValue'.
 ::= { snmp 10 }

snmpInReadOnly

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, snmpInTooBig, snmpInNoSuchNames,
snmpInBadValues, snmpInReadOnly, snmpInGenErrs,
snmpInTotalReqVars, snmpInTotalSetVars,
snmpInGetRequests, snmpInGetNexts, snmpInSetRequests,

snmpInGetResponses, snmpInTraps, snmpOutTooBig,
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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-MIB

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

SNMP-USM-DH-OBJECTS-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,
-- OBJECT-IDENTITY,
experimental, Integer32
FROM SNMPv2-SMI
TEXTUAL-CONVENTION
FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF
usmUserEntry
FROM SNMP-USER-BASED-SM-MIB
SnmAdminString
FROM SNMP-FRAMEWORK-MIB;

snmpUsmDHObjectsMIB MODULE-IDENTITY

LAST-UPDATED "200003060000Z" -- 6 March 2000, Midnight
ORGANIZATION "Excite@Home"

CONTACT-INFO "Author: Mike StJohns

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Redwood City, CA 94063

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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 usmDHParameters 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 }

usmDHParameters OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The public Diffie-Hellman parameters for doing a Diffie-Hellman key agreement for this device. This is encoded as an ASN.1 DHParameter per PKCS #3, section 9. E.g.

DHParameter ::= SEQUENCE {

prime INTEGER, -- p

base INTEGER, -- g

privateValueLength INTEGER OPTIONAL }

Implementors are encouraged to use either the values from Oakley Group 1 or the values of from Oakley Group 2 as specified in RFC-2409, The Internet Key Exchange, Section 6.1, 6.2 as the default for this object. Other values may be used, but the security properties of those values MUST be well understood and MUST meet the requirements of PKCS #3 for the selection of Diffie-Hellman primes.

In addition, any time usmDHParameters changes, all values of type DHKeyChange will change and new random numbers MUST be generated by the agent for each DHKeyChange object."

REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS #3,
RSA Laboratories,

November 1993

-- The Internet Key Exchange, RFC 2409, November 1998,
Sec 6.1, 6.2"

::= { usmDHPublicObjects 1 }

usmDHUserKeyTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table augments and extends the usmUserTable and provides 4 objects which exactly mirror the objects in that table with the textual convention of 'KeyChange'. This extension allows key changes to be done in a manner where the knowledge of the current secret plus knowledge of the key change data exchanges (e.g. via wiretapping) will not reveal the new key."

::= { usmDHPublicObjects 2 }

usmDHUserKeyEntry OBJECT-TYPE

SYNTAX UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of DHKeyChange objects which augment or replace the functionality of the KeyChange objects in the base table row."

AUGMENTS { usmUserEntry }

::= { usmDHUserKeyTable 1 }

UsmDHUserKeyEntry ::= SEQUENCE {

usmDHUserAuthKeyChange DHKeyChange,

usmDHUserOwnAuthKeyChange DHKeyChange,

```

    usmDHUserPrivKeyChange    DHKeyChange,
    usmDHUserOwnPrivKeyChange DHKeyChange
}

```

usmDHUserAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Authentication Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 1 }

usmDHUserOwnAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change the agents own Authentication Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 2 }

usmDHUserPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."

::= { usmDHUserKeyEntry 3 }

usmDHUserOwnPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The object used to change the agent's own Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."
::= { usmDHUserKeyEntry 4 }

usmDHKickstartGroup OBJECT IDENTIFIER ::= { usmDHKeyObjects 2 }

usmDHKickstartTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHKickstartEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"A table of mappings between zero or more Diffie-Helman key agreement values and entries in the usmUserTable. Entries in this table are created by providing the associated device with a Diffie-Helman public value and a usmUserName/usmUserSecurityName pair during initialization. How these values are provided is outside the scope of this MIB, but could be provided manually, or through a configuration file. Valid public value/name pairs result

in the creation of a row in this table as well as the creation of an associated row (with keys derived as indicated) in the usmUserTable. The actual access the related usmSecurityName has is dependent on the entries in the VACM tables. In general, an implementor will specify one or more standard security names and will provide entries in the VACM tables granting various levels of access to those names. The actual content of the VACM table is beyond the scope of this MIB.

Note: This table is expected to be readable without authentication using the usmUserSecurityName 'dhKickstart'. See the conformance statements for details."

::= { usmDHKickstartGroup 1 }

usmDHKickstartEntry OBJECT-TYPE

SYNTAX UsmDHKickstartEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"An entry in the usmDhKickstartTable. The agent SHOULD either delete this entry or mark it as inactive upon a successful SET of any of the KeyChange-typed objects in the usmUserEntry or upon a successful SET of any of the DHKeyChange-typed objects in the usmDhKeyChangeEntry where the related usmSecurityName (e.g. row of usmUserTable or row of ushDhKeyChangeTable) equals this entry's usmDhKickstartSecurityName. In otherwords, once you've changed one or more of the keys for a row in usmUserTable with a particular security name, the row in this table with that same security name is no longer useful or meaningful."

INDEX { usmDhKickstartIndex }
 ::= { usmDhKickstartTable 1 }

UsmDhKickstartEntry ::= SEQUENCE {
 usmDhKickstartIndex Integer32,
 usmDhKickstartMyPublic OCTET STRING,
 usmDhKickstartMgrPublic OCTET STRING,
 usmDhKickstartSecurityName SnmpAdminString
 }

usmDhKickstartIndex OBJECT-TYPE
 SYNTAX Integer32 (1..2147483647)
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Index value for
 this row."
 ::= { usmDhKickstartEntry 1 }

usmDhKickstartMyPublic OBJECT-TYPE
 SYNTAX OCTET STRING
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "The agent's Diffie-Hellman public value for this row. At initialization, the agent generates a random number and derives its public value from that number. This public value is published here. This public value 'y' equals $g^r \text{ MOD } p$ 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

k

$$y = \sum_{i=1}^{k-1} 2^{8(k-i)} PV^i$$

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 $sk = mgrPublic^r \bmod p$ 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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-USM-DH-OBJECTS-MIB

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

DOT3-OAM-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32, Unsigned32,
Integer32, NOTIFICATION-TYPE
FROM SNMPv2-SMI
-- from [RFC2578]
TEXTUAL-CONVENTION, MacAddress, TimeStamp, TruthValue

FROM SNMPv2-TC
-- from [RFC2579]

CounterBasedGauge64

FROM HCNUM-TC
-- from [RFC2856]

ifIndex

FROM IF-MIB
-- from [RFC2863]

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
FROM SNMPv2-CONF;

-- from [RFC2580]

dot3OamMIB MODULE-IDENTITY

LAST-UPDATED "200706140000Z" -- June 14,2007"

ORGANIZATION

"IETF Ethernet Interfaces and Hub MIB Working Group"

CONTACT-INFO

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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.

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 OAM 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
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 OA 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 "2³² 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

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

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):
* /mibbe-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-MIB

```

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

SYSAPPL-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,
Unsigned32, TimeTicks, Counter32, Gauge32
FROM SNMPv2-SMI
DateAndTime, TEXTUAL-CONVENTION
FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP
FROM SNMPv2-CONF
mib-2 FROM SNMPv2-SMI;

-- System Application MIB

sysApplMIB MODULE-IDENTITY

LAST-UPDATED "9710200000Z"

ORGANIZATION "IETF Applications MIB Working Group"

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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 SysApplInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an installed application package."

INDEX { sysApplInstallPkgIndex }
::= { sysApplInstallPkgTable 1 }

sysApplInstallPkgEntry ::= SEQUENCE {
 sysApplInstallPkgIndex Unsigned32,
 sysApplInstallPkgManufacturer Utf8String,
 sysApplInstallPkgProductName Utf8String,
 sysApplInstallPkgVersion Utf8String,
 sysApplInstallPkgSerialNumber
 Utf8String,
 sysApplInstallPkgDate DateAndTime,
 sysApplInstallPkgLocation LongUtf8String
}

sysApplInstallPkgIndex OBJECT-TYPE

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

::= { sysApplInstallPkgEntry 1 }

sysApplInstallPkgManufacturer

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Manufacturer of the software application package."

::= { sysApplInstallPkgEntry 2 }

sysApplInstallPkgProductName OBJECT-TYPE

SYNTAX Utf8String

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The name assigned to the software application package
    by the Manufacturer."
::= { sysApplInstallPkgEntry 3 }

sysApplInstallPkgVersion OBJECT-TYPE
    SYNTAX Utf8String
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The version number assigned to the application package
        by the manufacturer of the software."
    ::= { sysApplInstallPkgEntry 4 }

sysApplInstallPkgSerialNumber OBJECT-TYPE
    SYNTAX Utf8String
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The serial number of the software assigned
by the
        manufacturer."
    ::= { sysApplInstallPkgEntry 5 }

sysApplInstallPkgDate OBJECT-TYPE
    SYNTAX DateAndTime
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The date and time this software application was installed
        on the host."
    ::= { sysApplInstallPkgEntry 6 }

sysApplInstallPkgLocation OBJECT-TYPE
    SYNTAX LongUtf8String
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The complete path name where the application package
        is installed. For example, the value would be
        '/opt/MyapplDir' if the application package was installed
        in the /opt/MyapplDir directory."
    ::= { sysApplInstallPkgEntry 7 }

-- sysApplInstallElmtTable

```

- The table describing the individual application package
- elements (files and executables) installed on the host computer.

sysApplInstallElmtTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table details the individual application package elements (files and executables) which comprise the applications defined in the sysApplInstallPkg Table. Each entry in this table has an index to the sysApplInstallPkg table to identify the application package of which it is a part. As a result, there may be many entries in this table for each instance in the sysApplInstallPkg Table.

Table entries are indexed by sysApplInstallPkgIndex, sysApplInstallElmtIndex to facilitate retrieval of all elements associated with a particular installed application package."

::= { sysApplInstalled 2 }

sysApplInstallElmtEntry OBJECT-TYPE

SYNTAX SysApplInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an element of an installed application. The element may be an executable or non-executable file."

INDEX {sysApplInstallPkgIndex, sysApplInstallElmtIndex}

::= { sysApplInstallElmtTable 1 }

SysApplInstallElmtEntry ::= SEQUENCE {

sysApplInstallElmtIndex	Unsigned32,
sysApplInstallElmtName	Utf8String,
sysApplInstallElmtType	INTEGER,
sysApplInstallElmtDate	DateAndTime,
sysApplInstallElmtPath	LongUtf8String,
sysApplInstallElmtSizeHigh	Unsigned32,
sysApplInstallElmtSizeLow	Unsigned32,
sysApplInstallElmtRole	BITS,
sysApplInstallElmtModifyDate	DateAndTime,
sysApplInstallElmtCurSizeHigh	Unsigned32,
sysApplInstallElmtCurSizeLow	Unsigned32

}

sysApplInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'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."

::= { sysApplInstallElmtEntry 1 }

sysApplInstallElmtName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { sysApplInstallElmtEntry 2 }

sysApplInstallElmtType OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

nonexecutable(2),

operatingSystem(3), -- executable

deviceDriver(4), -- executable

application(5) -- executable

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of element that is part of the installed application."

::= { sysApplInstallElmtEntry 3 }

sysApplInstallElmtDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { sysApplInstallElmtEntry 4 }

sysApplInstallElmtPath OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full directory path where this element is installed.

For example, the value would be '/opt/EMPuma/bin' for an element installed in the directory '/opt/EMPuma/bin'.

Most application packages include information about the elements contained in the package. In addition, elements are typically installed in sub-directories under the package installation directory. In cases where the element path names are not included

in the package

information itself, the path can usually be determined

by a simple search of the sub-directories. If the

element is not installed in that location and there is

no other information available to the agent implementation, then the path is unknown and null is returned."

::= { sysApplInstallElmtEntry 5 }

sysApplInstallElmtSizeHigh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The installed file size in 2^{32} byte blocks. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes, this variable would have a value of 1; for a file with a total size of 4,294,967,295 bytes this variable would be 0."

::= { sysApplInstallElmtEntry 6 }

sysApplInstallElmtSizeLow OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The installed file size modulo 2^{32} bytes. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes this variable would have a value of 0; for a file with a total size of 4,294,967,295 bytes this variable would be 4,294,967,295."

::= { sysApplInstallElmtEntry 7 }

sysApplInstallElmtRole OBJECT-TYPE

SYNTAX BITS {

executable(0),

-- An application may have one or
-- more executable elements. The rest of the
-- bits have no meaning if the element is not
-- executable.

exclusive(1),

-- Only one copy of an exclusive element may be
-- running per invocation of the running
-- application.

primary(2),

-- The primary executable. An application can
-- have one, and only one element that is designated
-- as the primary executable. The execution of
-- this element constitutes an invocation of
-- the application. This is used by the agent
-- implementation to determine the initiation of
-- an application. The primary executable must
-- remain running long enough for the agent
-- implementation to detect its presence.

required(3),

-- An application may have zero or more required
-- elements. All required elements must be running

-- in order for the application to be judged to be
-- running and healthy.

dependent(4),

-- An application may have

zero or more

-- dependent elements. Dependent elements may
-- not be running unless required elements are.

unknown(5)

-- Default value for the case when an operator
-- has not yet assigned one of the other values.
-- When set, bits 1, 2, 3, and 4 have no meaning.

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An operator assigned value used in the determination of application status. This value is used by the agent to determine both the mapping of started processes to the initiation of an application, as well as to allow for a determination of application health. The default value, unknown(5), is used when an operator has not yet assigned

one of the other values. If unknown(5) is set, bits 1 - 4 have no meaning. The possible values are:

executable(0),

An application may have one or more executable elements. The rest of the bits have no meaning if the element is not executable.

exclusive(1),

Only one copy of an exclusive element may be running per invocation of the running application.

primary(2),

The primary executable. An application can have one, and only one element that is designated as the primary executable. The execution of this element constitutes an invocation of the application. This is used by the agent implementation to determine the initiation of an application. The primary executable must remain running long enough for

the agent

implementation to detect its presence.

required(3),

An application may have zero or more required elements. All required elements must be running in order for the application to be judged to be running and healthy.

dependent(4),

An application may have zero or more dependent elements. Dependent elements may not be running unless required elements are.

unknown(5)

Default value for the case when an operator has not yet assigned one of the other values.

When set, bits 1, 2, 3, and 4 have no meaning.

sysApplInstallElmtRole is used by the agent implementation in determining the initiation of an application, the current state of a running application (see sysApplRunCurrentState), when an application invocation is no longer running, and the exit status of a terminated application invocation (see sysApplPastRunExitState)."

DEFVAL { { unknown } }

::= { sysApplInstallElmtEntry 8 }

sysApplInstallElmtModifyDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time that this element was last modified.

Modification of the sysApplInstallElmtRole columnar object does NOT constitute a modification of the element itself and should not affect the value of this object."

::= { sysApplInstallElmtEntry 9 }

sysApplInstallElmtCurSizeHigh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current file size in 2³² 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 2³² 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 be

-- sysApplPastRunTblTimeLimit.

--

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

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

sysApplPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A history of the applications that have previously run

on the host

computer. An entry's information is moved to

this table from the sysApplRunTable when the invoked

application represented by the entry ceases to be running.

An agent implementation can determine that an application invocation is no longer running by evaluating the running elements of the application instance and their Roles as defined by sysApplInstallElmtRole. Obviously, if there are no running elements for the application instance, then the application invocation is no longer running.

If any one of the REQUIRED elements is not running, the application instance may be in the process of exiting.

Most agent implementations will wait until a second internal poll has been completed to give the system time to either restart partial failures or to give all elements time to exit. If, after the second poll, there are REQUIRED elements that

are not running, then the application

instance may be considered by the agent implementation to no longer be running.

Entries remain in the sysApplPastRunTable until they are aged out when either the table size reaches a maximum as determined by the sysApplPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplPastRunTblTimeLimit.

Entries in this table are indexed by sysApplInstallPkgIndex, sysApplPastRunIndex to facilitate retrieval of all past run invocations of a particular installed application."

::= { sysApplRun 2 }

sysApplPastRunEntry OBJECT-TYPE

SYNTAX SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an invocation of an application which was previously run and has terminated. The entry is basically copied from the sysApplRunTable

when the

application instance terminates. Hence, the entry's value for sysApplPastRunIndex is the same as its value was for sysApplRunIndex."

INDEX { sysApplInstallPkgIndex, sysApplPastRunIndex }

::= { sysApplPastRunTable 1 }

SysApplPastRunEntry ::= SEQUENCE {

sysApplPastRunIndex Unsigned32,

sysApplPastRunStarted DateAndTime,


```

sysApplPastRunExitState      INTEGER,
sysApplPastRunTimeEnded      DateAndTime
}

```

sysApplPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'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.

sysApplElmtRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplElmtRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table describes the processes which are
currently executing on the host system. Each entry
represents a running process and is associated with
the invoked application of which that process is a part, if
possible. This table contains an entry for every process
currently running on the system, regardless of whether its
'parent' application can be determined. So, for example,
processes like 'ps' and 'grep' will have entries though they
are not associated with an installed application package.

Because

a running application may involve

more than one executable, it is possible to have
multiple entries in this table for each application.

Entries are removed from this table when the process
terminates.

The table is indexed by sysApplElmtRunInstallPkg,
sysApplElmtRunInvocID, and sysApplElmtRunIndex to
facilitate the retrieval of all running elements of a
particular invoked application which has been installed on

the system."

::= { sysApplRun 3 }

sysApplElmtRunEntry OBJECT-TYPE

SYNTAX SysApplElmtRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing a process currently running on this host. When possible, the entry is associated with the invoked application of which it is a part."

INDEX { sysApplElmtRunInstallPkg, sysApplElmtRunInvocID,
sysApplElmtRunIndex

}

::= { sysApplElmtRunTable 1 }

sysApplElmtRunEntry ::= SEQUENCE {

sysApplElmtRunInstallPkg Unsigned32,
sysApplElmtRunInvocID Unsigned32,
sysApplElmtRunIndex Unsigned32,
sysApplElmtRunInstallID Unsigned32,
sysApplElmtRunTimeStarted DateAndTime,
sysApplElmtRunState RunState,
sysApplElmtRunName LongUtf8String,
sysApplElmtRunParameters Utf8String,
sysApplElmtRunCPU TimeTicks,
sysApplElmtRunMemory Gauge32,
sysApplElmtRunNumFiles Gauge32,
sysApplElmtRunUser Utf8String

}

sysApplElmtRunInstallPkg OBJECT-TYPE

SYNTAX Unsigned32 (0..'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 sysApplInstallPkgIndex for the entry in the sysApplInstallPkgTable that corresponds to the installed application of which this process is a part.

If, however, the 'parent' application cannot be determined, (for example the process is not part of a particular installed application), the value for this object is then '0', signifying that this process cannot be related back to an application, and in turn, an installed software package."

::= { sysApplElmtRunEntry 1 }

sysApplElmtRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (0..'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)."

::= { sysApplElmtRunEntry 6 }

sysApplElmtRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process.
For example, '/opt/MYYpkg/bin/myyproc' would be returned for process 'myyproc' whose execution path is '/opt/MYYpkg/bin/myyproc'."

::= { sysApplElmtRunEntry 7 }

sysApplElmtRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysApplElmtRunEntry 8 }

sysApplElmtRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of centi-seconds of the total system's CPU resources consumed by this process.

Note that

on a multi-processor system, this value may have been incremented by more than one centi-second in one centi-second of real (wall clock) time."

::= { sysApplElmtRunEntry 9 }

sysApplElmtRunMemory OBJECT-TYPE

SYNTAX Gauge32

UNITS "Kbytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total amount of real system memory measured in Kbytes currently allocated to this process."

::= { sysApplElmtRunEntry 10 }

sysApplElmtRunNumFiles OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of regular files currently open by the process. Transport connections (sockets) should NOT be included in the calculation of this value, nor should operating system specific special file types."

::= { sysApplElmtRunEntry 11 }

sysApplElmtRunUser OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

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

::= { sysApplElmtRunEntry 12 }

-- sysApplElmtPastRunTable

-- The sysApplElmtPastRunTable maintains a history of
-- processes which have previously executed on
-- the host as part of an application. Upon termination
-- of a process, the entry representing the process is removed from
-- the sysApplElmtRunTable and a corresponding entry is created in
-- this table provided that the process was part of an
-- identifiable application. If the process could not be associated

-- with an invoked application, no corresponding entry is created.
 -- Hence, whereas the 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 sysApplInstallPkgIndex (from the
 -- sysApplInstallPkgTable), 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 sysApplInstallPkgIndex (from the

sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and sysApplElmtPastRunIndex to make it easy to locate all previously executed processes of a particular invoked application that has been installed on the system."

::= { sysApplRun 4 }

sysApplElmtPastRunEntry OBJECT-TYPE

SYNTAX SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing a process which was previously executed on this host as part of an installed application. The entry is basically copied from the sysApplElmtRunTable when the process terminates. Hence, the entry's value for sysApplElmtPastRunIndex is the same as its value was for sysApplElmtRunIndex. Note carefully: only those processes which could be associated with an identified application are included in this table."

INDEX { sysApplInstallPkgIndex,

sysApplElmtPastRunInvocID,

sysApplElmtPastRunIndex }

::= { sysApplElmtPastRunTable 1 }

sysApplElmtPastRunEntry ::= SEQUENCE {

sysApplElmtPastRunInvocID Unsigned32,

sysApplElmtPastRunIndex Unsigned32,

sysApplElmtPastRunInstallID Unsigned32,

sysApplElmtPastRunTimeStarted DateAndTime,

sysApplElmtPastRunTimeEnded DateAndTime,

sysApplElmtPastRunName LongUtf8String,

sysApplElmtPastRunParameters Utf8String,

sysApplElmtPastRunCPU TimeTicks,

sysApplElmtPastRunMemory Unsigned32,

sysApplElmtPastRunNumFiles Unsigned32,

sysApplElmtPastRunUser Utf8String

}

sysApplElmtPastRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (1..'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 sysApplRunIndex for the corresponding application invocation in the sysApplRunTable. If the invoked application as a whole has terminated, it will be the same as the sysApplPastRunIndex."

::= { sysApplElmtPastRunEntry 1 }

sysApplElmtPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'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 sysApplElmtRunIndex which was removed from the sysApplElmtRunTable and moved to this table when the element terminated.

Note: entries in this table are indexed by sysApplElmtPastRunInvocID, sysApplElmtPastRunIndex.

The possibility exists, though unlikely, of a collision occurring by a new entry which was run by the same invoked application (InvocID), and was assigned the same process identification number (ElmtRunIndex) as an element which was previously run by the same invoked application.

Should this situation occur, the new entry replaces the old entry.

See Section: 'Implementation Issues - sysApplElmtPastRunTable Entry Collisions' for the conditions that would have to occur in order for a collision to occur."

::= { sysApplElmtPastRunEntry 2 }

sysApplElmtPastRunInstallID OBJECT-TYPE

SYNTAX Unsigned32 (1..'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 sysApplInstallElmtIndex for the application element

of which this entry represents a previously executed process."

::= { sysApplElmtPastRunEntry 3 }

sysApplElmtPastRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

::= { sysApplElmtPastRunEntry 4 }

sysApplElmtPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process ended."

::= { sysApplElmtPastRunEntry 5 }

sysApplElmtPastRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process.

For example, '/opt/MYYpkg/bin/myyproc' would be returned for process 'myyproc' whose execution path was '/opt/MYYpkg/bin/myyproc'."

::= { sysApplElmtPastRunEntry 6 }

sysApplElmtPastRunParameters

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysApplElmtPastRunEntry 7 }

sysApplElmtPastRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last known number of centi-seconds of the total system's CPU resources consumed by this process.

Note that on a multi-processor system, this value may

increment by more than one centi-second in one centi-second of real (wall clock) time."
::= { sysApplElmtPastRunEntry 8 }

sysApplElmtPastRunMemory OBJECT-TYPE

SYNTAX Unsigned32 (0..'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."
::= { sysApplElmtPastRunEntry 9 }

sysApplElmtPastRunNumFiles 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 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 sysApplElemPastRunTable may exist before it is removed.

Any entry that is older than this value will be removed (aged out) from the table.

Note that an entry may be aged out prior to reaching this time limit if it is the oldest entry in the

table and must be removed to make space for a new entry so as to not exceed sysApplElemPastRunMaxRows."

DEFVAL { 7200 }

::= { sysApplRun 10 }

sysApplAgentPollInterval OBJECT-TYPE

SYNTAX Unsigned32 (0..'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 }

::= { sysApplRun 11 }

-- sysApplMap Group

-- This group contains a table, the sysApplMapTable,
-- whose sole purpose is to provide a 'backwards'
-- mapping so that, given a known sysApplElmtRunIndex
-- (process identification number), the corresponding invoked
-- application (sysApplRunIndex), installed element
-- (sysApplInstallElmtIndex), and installed application
-- package (sysApplInstallPkgIndex) can be quickly determined.

--

-- The table will contain one entry for each process
-- currently running on the system.

--

-- A backwards mapping is extremely useful since the tables
-- in this MIB module are typically indexed with the
-- installed application package (sysApplInstallPkgIndex)
-- as the primary key, and on down

as required by the

-- specific table, with the process ID number (sysApplElmtRunIndex)
-- being the least significant key.

--

```
-- It is expected that management applications will use
-- this mapping table by doing a 'GetNext' operation with
-- the known process ID number (sysApplElmtRunIndex) as the partial
-- instance identifier. Assuming that there is an entry for
-- the process, the result should return a single columnar value,
-- the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex,
-- sysApplRunIndex, and sysApplInstallElmtIndex contained in the
-- instance identifier for the returned MIB object value.
--
-- NOTE: if the process can not be associated back to an
-- invoked application installed on the system, then the
-- value returned for the columnar value sysApplMapInstallPkgIndex
-- will be '0' and the instance portion of the object-identifier
-- will be the process ID number (sysApplElmtRunIndex) followed
-- by 0.0.
```

sysApplMapTable

OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The sole purpose of this table is to provide a 'backwards' mapping so that, given a known sysApplElmtRunIndex (process identification number), the corresponding invoked application (sysApplRunIndex), installed element (sysApplInstallElmtIndex), and installed application package (sysApplInstallPkgIndex) can be quickly determined.

This table will contain one entry for each process that is currently executing on the system.

It is expected that management applications will use this mapping table by doing a 'GetNext' operation with the known process ID number (sysApplElmtRunIndex) as the partial instance identifier. Assuming that there is an entry for the process, the result should return a single columnar

value, the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex, sysApplRunIndex, and sysApplInstallElmtIndex contained in the instance identifier for the returned MIB object value.

NOTE: if the process can not be associated back to an invoked application installed on the system, then the value returned for the columnar value

sysApplMapInstallPkgIndex will be '0' and the instance portion of the object-identifier will be the process ID number (sysApplElmtRunIndex) followed by 0.0."

::= { sysApplMap 1 }

sysApplMapEntry OBJECT-TYPE

SYNTAX SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A logical row representing a process currently running on the system. This entry provides the index mapping from process identifier, back to the invoked application, installed element, and finally, the

installed application

package. The entry includes only one accessible columnar object, the sysApplMapInstallPkgIndex, but the invoked application and installed element can be determined from the instance identifier since they form part of the index clause."

INDEX { sysApplElmtRunIndex, sysApplElmtRunInvocID, sysApplMapInstallElmtIndex }

::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {

sysApplMapInstallElmtIndex Unsigned32,

sysApplMapInstallPkgIndex Unsigned32

}

sysApplMapInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'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):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-MIB

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

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

MODULE-IDENTITY, mib-2
  FROM SNMPv2-SMI      -- [RFC2578]
  TEXTUAL-CONVENTION
  FROM SNMPv2-TC;      -- [RFC2579]

```

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

CONTACT-INFO

```

  "Postal:  Internet Assigned Numbers Authority
             Internet Corporation for Assigned Names
             and Numbers
             4676 Admiralty Way, Suite 330
             Marina del Rey, CA 90292-6601
             USA

```

Tel: +1 310-823-9358

E-Mail: iana@iana.org"

DESCRIPTION

```

  "The MIB module defines the ITU Alarm
  textual convention for objects expected to require
  regular extension.

```

Copyright (C) The Internet Society (2004). The
initial version of this MIB module

was published

in RFC 3877. For full legal notices see the RFC
itself. Supplementary information may be available on:
<http://www.ietf.org/copyrights/ianamib.html>"

REVISION "200409090000Z" -- September 09, 2004

DESCRIPTION

"Initial version, published as RFC 3877."

::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.

IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are
reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a
first-come, first served basis and will be assigned
enumeration values starting with 1025.

Request should come in the form of well-formed

SMI [RFC2578] for enumeration names that are unique and
sufficiently descriptive.

While some effort will be taken to ensure that new probable
causes do not conceptually duplicate existing probable
causes it is acknowledged that the existence of conceptual
duplicates in the starting probable cause list is an known
industry reality.

To aid IANA in the administration of probable cause names
and values, the OPS Area Director will appoint one or more
experts to help review requests.

See <http://www.iana.org>"

REFERENCE

"ITU Recommendation M.3100, 'Generic Network Information
Model', 1995

ITU Recommendation X.733, 'Information Technology
- Open
Systems Interconnection - System Management: Alarm
Reporting Function', 1992
ITU Recommendation X.736, 'Information Technology - Open
Systems Interconnection - System Management: Security
Alarm Reporting Function', 1992"

SYNTAX INTEGER

```
{  
-- The following probable causes were defined in M.3100  
aIS (1),  
callSetUpFailure (2),  
degradedSignal (3),  
farEndReceiverFailure (4),  
framingError (5),  
lossOfFrame (6),  
lossOfPointer (7),  
lossOfSignal (8),  
payloadTypeMismatch (9),  
transmissionError (10),  
remoteAlarmInterface (11),  
excessiveBER (12),  
pathTraceMismatch (13),  
unavailable (14),  
signalLabelMismatch (15),  
lossOfMultiFrame (16),  
receiveFailure (17),  
  
transmitFailure (18),  
modulationFailure (19),  
demodulationFailure (20),  
broadcastChannelFailure (21),  
  
connectionEstablishmentError (22),  
invalidMessageReceived (23),  
localNodeTransmissionError (24),  
remoteNodeTransmissionError (25),  
routingFailure (26),  
  
--Values 27-50 are reserved for communications alarm related  
--probable causes  
-- The following are used with equipment alarm.  
  
backplaneFailure (51),  
dataSetProblem (52),  
equipmentIdentifierDuplication (53),
```

- externalIFDeviceProblem (54),
- lineCardProblem (55),
- multiplexerProblem (56),
- nEIdentifierDuplication (57),
- powerProblem (58),
- processorProblem (59),
- protectionPathFailure (60),
- receiverFailure (61),
- replaceableUnitMissing (62),
- replaceableUnitTypeMismatch

(63),

- synchronizationSourceMismatch (64),
- terminalProblem (65),
- timingProblem (66),
- transmitterFailure (67),
- trunkCardProblem (68),
- replaceableUnitProblem (69),
- realTimeClockFailure (70),

--An equipment alarm to be issued if the system detects that the

--real time clock has failed

- antennaFailure (71),
- batteryChargingFailure (72),
- diskFailure (73),
- frequencyHoppingFailure (74),
- iODeviceError (75),
- lossOfSynchronisation (76),
- lossOfRedundancy (77),
- powerSupplyFailure (78),
- signalQualityEvaluationFailure (79),
- tranceiverFailure (80),
- protectionMechanismFailure (81),
- protectingResourceFailure (82),

-- Values 83-100 are reserved for equipment alarm related probable

-- causes

-- The following are used with environmental alarm.

- airCompressorFailure (101),

- airConditioningFailure (102),
- airDryerFailure (103),
- batteryDischarging (104),
- batteryFailure (105),
- commercialPowerFailure (106),
- coolingFanFailure (107),
- engineFailure (108),
- fireDetectorFailure (109),
- fuseFailure (110),
- generatorFailure (111),

- lowBatteryThreshold (112),
- pumpFailure (113),
- rectifierFailure (114),
- rectifierHighVoltage (115),
- 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),
- lowTemperatue (130),
- lowWater (131),
- smoke (132),
- toxicGas (133),
- coolingSystemFailure (134),
- externalEquipmentFailure (135),
- externalPointFailure (136),

-- Values 137-150 are reserved for environmental alarm related

-- probable causes

-- The following are used with Processing error alarm.

- storageCapacityProblem (151),
- memoryMismatch (152),
- corruptData (153),
- outOfCPUCycles (154),
- sfwrEnvironmentProblem (155),
- sfwrDownloadFailure (156),
- 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),
- outputDeviceError (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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/IANA-ITU-ALARM-TC-MIB

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

PKTC-IETF-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,

OBJECT-TYPE,

OBJECT-IDENTITY,

Unsigned32,

Counter32,

NOTIFICATION-TYPE,

mib-2

FROM SNMPv2-SMI -- [RFC2578]

TEXTUAL-CONVENTION,

RowStatus,

TruthValue

FROM SNMPv2-TC -- [RFC2579]

OBJECT-GROUP,

MODULE-COMPLIANCE,

NOTIFICATION-GROUP

FROM SNMPv2-CONF -- [RFC2580]

InetAddressType,

InetAddress

FROM INET-ADDRESS-MIB -- [RFC4001]

sysDescr

FROM SNMPv2-MIB -- [RFC3418]

SnmpAdminString

FROM SNMP-FRAMEWORK-MIB -- [RFC3411]

docsDevSoftwareGroupV2

FROM DOCS-CABLE-DEVICE-MIB -- [RFC4639]

DocsX509ASN1DEREncodedCertificate,

docsBpi2CodeDownloadGroup

FROM DOCS-IETF-BPI2-MIB -- [RFC4131]

LongUtf8String

FROM SYSAPPL-MIB -- [RFC2287]

ifPhysAddress

FROM IF-MIB; -- [RFC2863]

pktnetMib MODULE-IDENTITY

LAST-UPDATED "200609180000Z" -- September 18, 2006

ORGANIZATION "IETF IP over Cable Data Network Working Group"

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IETF IPCDN Working Group

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Subscribe: <http://www.ietf.org/mailman/listinfo/ipcdn>
Archive: <ftp://ftp.ietf.org/ietf-mail-archive/ipcdn>
Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com

DESCRIPTION

"This MIB module defines the basic management object for the Multimedia Terminal Adapter devices compliant with PacketCable and IPCablecom requirements.

Copyright (C) The IETF Trust (2006). This version of this MIB module is part of RFC 4682; see the RFC itself for full legal notices."

REVISION "200609180000Z" -- September 18, 2006

DESCRIPTION

"Initial version, published as RFC 4682."

::= { mib-2 140 }

-- Textual Conventions

PktcMtaDevProvEncryptAlg ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This textual convention defines various types of the encryption algorithms used for the encryption of the MTA configuration file. The description of the encryption algorithm for each enumerated value is as follows:

'none(0)' no encryption

is used,

'des64CbcMode(1)' DES 64-bit key in CBC mode,

```

't3Des192CbcMode(2)' 3DES 192-bit key in CBC mode,
'aes128CbcMode(3)' AES 128-bit key in CBC mode,
'aes256CbcMode(4)' AES 256-bit key in CBC mode."
SYNTAX    INTEGER {
    none          (0),
    des64CbcMode  (1),
    t3Des192CbcMode (2),
    aes128CbcMode (3),
    aes256CbcMode (4)
}

=====
-- The MTA MIB module only supports a single Provisioning Server.
=====

pktcMtaNotification OBJECT IDENTIFIER ::= { pktcIetfMtaMib 0 }
pktcMtaMibObjects   OBJECT IDENTIFIER ::= { pktcIetfMtaMib 1 }
pktcMtaDevBase      OBJECT IDENTIFIER ::= { pktcMtaMibObjects 1 }
pktcMtaDevServer    OBJECT IDENTIFIER ::= { pktcMtaMibObjects 2 }
pktcMtaDevSecurity  OBJECT IDENTIFIER ::= { pktcMtaMibObjects 3 }
}
pktcMtaDevErrors    OBJECT IDENTIFIER ::= { pktcMtaMibObjects 4 }
pktcMtaConformance  OBJECT IDENTIFIER ::= { pktcIetfMtaMib 2 }

--
-- The following pktcMtaDevBase group describes the base MTA objects
--

pktcMtaDevResetNow  OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        " This object controls the MTA software reset.
        Reading this object always returns 'false'. Setting this
        object to 'true' causes the device to reset immediately
        and the following actions to occur:
            1. All connections (if present) are flushed locally.
            2. All current actions such as ringing immediately
               terminate.
            3. Requests for signaling notifications, such as
               notification based on digit map recognition, are
               flushed.
            4. All endpoints are disabled.
            5. The provisioning flow is started at step MTA-1.

```

If a value is written into an instance of
pktcMtaDevResetNow, the agent MUST NOT retain the supplied
value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."
::= { pktcMtaDevBase 1 }

pktcMtaDevSerialNumber OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies the manufacturer's serial
number of this MTA. The value of this object MUST be
identical to the value specified in DHCP option 43,
sub-option 4. The list of sub-options for DHCP option
43 are defined in the PacketCable MTA Device
Provisioning Specification."

REFERENCE

" PacketCable MTA Device Provisioning Specification."
::= { pktcMtaDevBase 2 }

pktcMtaDevSwCurrentVers OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object identifies the software version currently
operating in the MTA.
The MTA MUST return a string descriptive of the current
software load. This object should use the syntax
defined by the individual vendor to identify the software
version. The data presented in this object MUST be
identical to the software version information contained
in the 'sysDescr' MIB object of the MTA. The value of
this object MUST be identical to the value specified in
DHCP option 43, sub-option 6. The list of sub-options for
DHCP option 43 are defined in the PacketCable MTA Device
Provisioning Specification."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 3 }

pktcMtaDevFQDN OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Fully Qualified Domain Name for this MTA. The MTA FQDN is used to uniquely identify the device to the PacketCable back office elements."

::= { pktcMtaDevBase 4 }

pktcMtaDevEndPntCount OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the number of physical endpoints for this MTA."

::= { pktcMtaDevBase 5 }

pktcMtaDevEnabled OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the MTA Admin Status of this device.

If this object is set to 'true', the MTA is administratively enabled, and the MTA MUST be able to interact with the PacketCable entities, such as CMS, Provisioning Server, KDC, and other MTAs and MGs on all PacketCable interfaces.

If this object is set to 'false', the MTA is administratively

disabled, and the MTA MUST perform the following actions for all endpoints:

- Shut down all media sessions, if present.
- Shut down Network Control Signaling (NCS) signaling by following the Restart in Progress procedures in the PacketCable NCS specification.

The MTA must execute all actions required to enable or disable the telephony services for all endpoints immediately upon receipt of an SNMP SET operation.

Additionally, the MTA MUST maintain the SNMP Interface

for management and also the SNMP Key management interface.
Also, the MTA MUST NOT continue Kerberized key management with CMSes until this object is set to 'true'.

Note: MTAs MUST renew the CMS Kerberos tickets according to the PacketCable Security or IPCablecom Specification.

If a value is written into an instance

of

pktcMtaDevEnabled, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification;
PacketCable Security Specification;
PacketCable Network-Based Call Signaling Protocol

Specification."

::= { pktcMtaDevBase 6 }

pktcMtaDevTypeIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object provides the MTA device type identifier. The value of this object must be a copy of the DHCP option 60 value exchanged between the MTA and the DHCP server. The DHCP option 60 value contains an ASCII-encoded string identifying capabilities of the MTA as defined in the PacketCable MTA Device Provisioning Specification."

REFERENCE

" RFC 2132, DHCP Options and BOOTP Vendor Extensions;
PacketCable

MTA Device Provisioning Specification."

::= { pktcMtaDevBase 7 }

pktcMtaDevProvisioningState OBJECT-TYPE

SYNTAX INTEGER {

pass (1),

inProgress (2),

failConfigFileError (3),

passWithWarnings (4),

passWithIncompleteParsing (5),

failureInternalError (6),

failureOtherReason (7)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates the completion state of the MTA device provisioning process.

pass:

If the configuration file could be parsed successfully and the MTA is able to reflect the same in its MIB, the MTA MUST return the value 'pass'.

inProgress:

If the MTA is in the process of being provisioned, the MTA MUST return the value 'inProgress'.

failConfigFileError:

If the configuration file was in error due to incorrect values in the mandatory parameters, the MTA MUST reject the configuration file, and the MTA MUST return the value

'failConfigFileError'.

passWithWarnings:

If the configuration file had proper values for all the mandatory parameters but has errors in any of the optional parameters (this includes any vendor-specific Object Identifiers (OIDs) that are incorrect or not known to the MTA), the MTA MUST return the value 'passWithWarnings'.

passWithIncompleteParsing:

If the configuration file is valid but the MTA cannot reflect the same in its configuration (for example, too many entries caused memory exhaustion), it must accept the CMS configuration entries related, and the MTA MUST return the value 'passWithIncompleteParsing'.

failureInternalError:

If the configuration file cannot be parsed due to an Internal error, the MTA MUST return the value 'failureInternalError'.

failureOtherReason:

If the MTA cannot accept the configuration file for any other reason than the ones stated above, the MTA MUST return the value 'failureOtherReason'.

When a final SNMP INFORM is sent as part of Step 25 of the

MTA Provisioning process, this parameter is also included in the final INFORM message."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 8 }

pktcMtaDevHttpAccess OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates whether the HTTP protocol is supported for the MTA configuration file transfer."

::= { pktcMtaDevBase 9 }

pktcMtaDevProvisioningTimer OBJECT-TYPE

SYNTAX Unsigned32

(0..30)

UNITS "minutes"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines the time interval for the provisioning flow to complete. The MTA MUST finish all provisioning operations starting from the moment when an MTA receives its DHCP ACK and ending at the moment when the MTA downloads its configuration file (e.g., MTA5 to MTA23) within the period of time set by this object. Failure to comply with this condition constitutes a provisioning flow failure. If the object is set to 0, the MTA MUST ignore the provisioning timer condition. If a value is written into an instance of pktcMtaDevProvisioningTimer, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

DEFVAL {10}

::= {pktcMtaDevBase 10}

pktcMtaDevProvisioningCounter

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts the number of times the provisioning cycle has looped through step MTA-1."
::= {pktcMtaDevBase 11}

pktcMtaDevErrorOidsTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevErrorOidsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table contains the list of configuration errors or warnings the MTA encountered when parsing the configuration file it received from the Provisioning Server.

For each error, an entry is created in this table, containing the configuration parameters the MTA rejected and the associated reason (e.g., wrong or unknown OID, inappropriate object values). If the MTA did not report a provisioning state of 'pass(1)' in the pktcMtaDevProvisioningState object, this

table MUST be

populated for each error or warning instance. Even if different parameters share the same error type (e.g., all realm name configuration parameters are invalid), all observed errors or warnings must be reported as different instances. Errors are placed into the table in no particular order. The table MUST be cleared each time

the MTA reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= {pktcMtaDevBase 12 }

pktcMtaDevErrorOidsEntry OBJECT-TYPE

SYNTAX PktcMtaDevErrorOidsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This entry contains the necessary information the MTA MUST attempt to provide in case of configuration file errors or warnings."

INDEX { pktcMtaDevErrorOidIndex }

::= {pktcMtaDevErrorOidsTable 1}

PktcMtaDevErrorOidsEntry ::= SEQUENCE {

pktcMtaDevErrorOidIndex Unsigned32,

```

pktcMtaDevErrorOid    SnmpAdminString,
pktcMtaDevErrorValue  SnmpAdminString,
pktcMtaDevErrorReason SnmpAdminString
}

```

pktcMtaDevErrorOidIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..1024)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object is the index of the MTA configuration error table. It is an integer value that starts at value '1' and is incremented for each encountered configuration file error or warning.

The maximum number of errors or warnings that can be recorded in the pktcMtaDevErrorOidsTable is set to 1024 as a configuration file is usually validated by operators before deployment. Given the possible number of configuration parameter assignments in the MTA configuration file, 1024 is perceived as a sufficient limit even with future extensions.

If the number of the errors in the configuration file exceeds 1024, all errors beyond the 1024th one MUST be ignored and not be reflected in the pktcMtaDevErrorOidsTable."

::= {pktcMtaDevErrorOidsEntry 1}

pktcMtaDevErrorOid OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a human readable representation (character string) of the OID corresponding to the configuration file parameter that caused the particular error.

For example, if the value of the pktcMtaDevEnabled object in the configuration file caused an error, then this object instance will contain the human-readable string of '1.3.6.1.2.1.140.1.1.6.0'.

If the MTA generated an error because it was not able

to recognize a particular OID, then this object instance would contain an empty value (zero-length string).

For example,

if the value of an OID in the configuration

file was interpreted by the MTA as being 1.2.3.4.5, and if the MTA was not able to recognize this OID as a valid one, this object instance will contain a zero-length string.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the `pktcMtaDevErrorOid` of the table's 1024th entry MUST contain a human-readable representation of the `pktcMtaDevErrorsTooManyErrors` object; i.e., the string '1.3.6.1.2.1.140.1.1.4.1.0'.

Note that the syntax of this object is `SnmpAdminString` instead of `OBJECT IDENTIFIER` because the object value may not be a valid OID due to human or configuration tool encoding errors."

::= {pktcMtaDevErrorOidsEntry 2}

`pktcMtaDevErrorValue` OBJECT-TYPE

SYNTAX `SnmpAdminString`

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This

object contains the value of the OID corresponding to

the configuration file parameter that caused the error.

If the MTA cannot recognize the OID of the configuration parameter causing the error, then this object instance contains the OID itself as interpreted by the MTA in human-readable representation.

If the MTA can recognize the OID but generate an error due to a wrong value of the parameter, then the object

instance contains the erroneous value of the parameter as read from the configuration file.

In both cases, the value of this object must be represented in human-readable form as a character string.

For example, if the value of the `pktcMtaDevEnabled` object in the configuration file was 3 (invalid value), then the `pktcMtaDevErrorValue` object instance will contain the human-readable (string) representation of value '3'.

Similarly, if the OID in the configuration file has been interpreted by the MTA as being 1.2.3.4.5 and the MTA cannot recognize this OID as a valid one, then this pktcMtaDevErrorValue object instance will contain human readable (string) representation of value '1.2.3.4.5'.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the pktcMtaDevErrorValue of the table's 1024th entry MUST contain a human-readable representation of the pktcMtaDevErrorsTooManyErrors object; i.e., the string '1.3.6.1.2.1.140.1.1.4.1.0'."

::= {pktcMtaDevErrorOidsEntry 3}

pktcMtaDevErrorReason OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates the reason for the error or warning, as per the MTA's interpretation, in human-readable form. For example:

'VALUE NOT IN RANGE', 'VALUE DOES NOT MATCH TYPE', 'UNSUPPORTED VALUE', 'LAST 4 BITS MUST BE SET TO ZERO', 'OUT OF MEMORY - CANNOT STORE'.

This object may also contain vendor specific errors for private vendor OIDs and any proprietary error codes or messages that can help diagnose configuration errors.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the pktcMtaDevErrorReason of the table's 1024th entry MUST contain a human-readable string indicating the reason for an error; for example, 'Too many errors in the configuration file'."

::= {pktcMtaDevErrorOidsEntry 4}

--

-- The following group describes server access and parameters used

-- for the initial MTA provisioning and bootstrapping phases.

--

pktcMtaDevDhcpServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet address type for the PacketCable DHCP servers specified in MTA MIB."

DEFVAL { ipv4 }

::= { pktcMtaDevServer 1 }

pktcMtaDevServerDhcp1 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet Address of the primary DHCP server the MTA uses during provisioning. The type of this address is determined by the value of the pktcMtaDevDhcpServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the primary DHCP server. It is provided by the CM to the MTA via the DHCP option code 122, sub-option 1, as defined in RFC 3495.

The behavior of this object when the value of pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)' is not presently specified, but it may be specified in future versions of this MIB module.

If this object is of value 0.0.0.0, the MTA MUST stop all provisioning attempts, as well as all other activities.

If this object is of value 255.255.255.255, it means that there was no preference given for the primary DHCP server, and, the MTA must follow the logic of RFC2131, and the value of DHCP option 122, sub-option 2, must be ignored."

REFERENCE

" PacketCable MTA Device Provisioning Specification;
RFC 2131, Dynamic Host Configuration Protocol;
RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 2 }

pktcMtaDevServerDhcp2 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet Address of the secondary DHCP server the MTA uses during provisioning.

The type of this address is determined by the value of

the pktcMtaDevDhcpServerAddressType object.

When the latter has the value 'ipv4(1)', this object contains the IP address of the secondary DHCP server. It is provided by the CM to the MTA via the DHCP option code 122, sub-option 2, as defined in RFC 3495.

The behavior of this object when the value of pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)' is not presently specified, but it may be specified in future versions of this MIB module.

If there was no secondary DHCP server provided in DHCP Option 122, sub-option 2, this object must return the value 0.0.0.0."

REFERENCE

" PacketCable MTA Device Provisioning Specification;
RFC 3495, DHCP Option for CableLabs Client Configuration."
::= { pktcMtaDevServer 3 }

pktcMtaDevDnsServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

" This object contains the Internet address type for the PacketCable DNS servers specified in MTA MIB."

DEFVAL { ipv4 }

::= { pktcMtaDevServer 4 }

pktcMtaDevServerDns1 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the IP Address of the primary DNS server to be used by the MTA. The type of this address is determined by the value of the pktcMtaDevDnsServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the primary DNS server. As defined in RFC 2132, PacketCable-compliant MTAs receive the IP addresses of the DNS Servers in DHCP option 6. The behavior of this object when the value of

pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'

is not presently specified, but it
may be specified

in future versions of this MIB module.

If a value is written into an instance of
pktcMtaDevServerDns1, the agent MUST NOT retain the
supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification;
RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 5 }

pktcMtaDevServerDns2 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the IP Address of the secondary
DNS server to be used by the MTA. The type of this address
is determined by the value of the
pktcMtaDevDnsServerAddressType object.
When the latter has the value 'ipv4(1)', this object
contains the IP address of the secondary DNS
server. As defined in RFC 2132, PacketCable-compliant MTAs
receive the IP addresses of

the DNS Servers in DHCP

option 6.

The behavior of this object when the value of
pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'
is not presently specified, but it may be specified
in future versions of this MIB module.

If a value is written into an instance of
pktcMtaDevServerDns2, the agent MUST NOT retain the
supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification;
RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 6 }

pktcMtaDevTimeServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet address type for the

PacketCable Time servers specified in MTA MIB."

DEFVAL { ipv4 }

::= { pktcMtaDevServer 7}

pktcMtaDevTimeServer OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the Internet Address of the Time Server used by an S-MTA for Time Synchronization. The type of this address is determined by the value of the pktcMtaDevTimeServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the Time Server used for Time Synchronization.

In the case of an S-MTA, this object must be populated with a value other than 0.0.0.0 as obtained from DHCP option 4. The protocol by which the time of day MUST be retrieved is defined in RFC 868.

In the case of an E-MTA, this object must contain a value of 0.0.0.0 if the address type is 'ipv4(1)' since an E-MTA does not use the Time Protocol for time synchronization (an E-MTA uses the time retrieved by the DOCSIS cable modem).

The behavior of this object when the value of pktcMtaDevTimeServerAddressType is other than 'ipv4(1)' is not presently specified, but it may be specified in future versions of this MIB module.

If a value is written into an instance of pktcMtaDevTimeServer, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" RFC 868, Time Protocol;

RFC 2131, Dynamic Host Configuration Protocol;

RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 8}

pktcMtaDevConfigFile OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the MTA device configuration file information, including the access method, the server name,

and the configuration file name. The value of this object is the Uniform Resource Locator (URL) of the configuration file for TFTP or HTTP download. If this object value is a TFTP URL, it must be formatted as defined in RFC 3617. If this object value is an HTTP URL, it must be formatted as defined in RFC 2616. If the MTA SNMP Enrollment mechanism is used, then the MTA must download the file provided by the Provisioning Server

during provisioning via an SNMP SET on this object. If the MTA SNMP Enrollment mechanism is not used, this object MUST contain the URL value corresponding to the 'siaddr' and 'file' fields received in the DHCP ACK to locate the configuration file: the 'siaddr' and 'file' fields represent the host and file of the TFTP URL, respectively. In this case, the MTA MUST return an 'inconsistentValue' error in response to SNMP SET operations.

The MTA MUST return a zero-length string if the server address (host part of the URL) is unknown.

If a value is written into an instance of pktcMtaDevConfigFile, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification;
RFC 3617, URI Scheme for TFTP; RFC 2616, HTTP 1.1"
::= { pktcMtaDevServer 9 }

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.

'waitForConfigFile(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 - TGS GP."

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 }

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 PkctlMtaDevProvEncryptAlg

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,

pkcMtaDevProvisioningState,
pkcMtaDevHttpAccess,
pkcMtaDevCertificate,
pkcMtaDevCorrelationId,
pkcMtaDevManufacturerCertificate,
pkcMtaDevDhcpServerAddressType,
pkcMtaDevDnsServerAddressType,
pkcMtaDevTimeServerAddressType,
pkcMtaDevProvConfigEncryptAlg,
pkcMtaDevServerDhcp1,
pkcMtaDevServerDhcp2,
pkcMtaDevServerDns1,
pkcMtaDevServerDns2,
pkcMtaDevTimeServer,
pkcMtaDevConfigFile,
pkcMtaDevSnmpEntity,
pkcMtaDevRealmPkinitGracePeriod,
pkcMtaDevRealmTgsGracePeriod,
pkcMtaDevRealmAvailSlot,
pkcMtaDevRealmName,
pkcMtaDevRealmOrgName,
pkcMtaDevRealmUnsolicitedKeyMaxTimeout,
pkcMtaDevRealmUnsolicitedKeyNomTimeout,
pkcMtaDevRealmUnsolicitedKeyMaxRetries,
pkcMtaDevRealmStatus,
pkcMtaDevCmsAvailSlot,
pkcMtaDevCmsFqdn,
pkcMtaDevCmsKerbRealmName,
pkcMtaDevCmsUnsolicitedKeyMaxTimeout,

pkcMtaDevCmsUnsolicitedKeyNomTimeout,
pkcMtaDevCmsUnsolicitedKeyMaxRetries,
pkcMtaDevCmsSolicitedKeyTimeout,
pkcMtaDevCmsMaxClockSkew,
pkcMtaDevCmsIpsecCtrl,
pkcMtaDevCmsStatus,
pkcMtaDevResetKrbTickets,
pkcMtaDevProvUnsolicitedKeyMaxTimeout,
pkcMtaDevProvUnsolicitedKeyNomTimeout,
pkcMtaDevProvUnsolicitedKeyMaxRetries,
pkcMtaDevProvKerbRealmName,
pkcMtaDevProvSolicitedKeyTimeout,
pkcMtaDevProvConfigHash,
pkcMtaDevProvConfigKey,
pkcMtaDevProvState,

```

        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 PkctlMtaDevProvEncryptAlg

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 pkctlMtaDevProvConfigKey is 64 bits, as
defined in the PacketCable Security specification.
Other encryption types may be defined in future
versions of this MIB module."

OBJECT pkctlMtaDevRealmOrgName

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 pkctlMtaDevRealmOrgName. The calculation of
384 octets comes from the RFC 3629 UTF-8 encoding
definition whereby the UTF-8 encoded
characters
are encoded as sequences of 1 to 6 octets,
assuming that code points as high as 0x7fffffff
might be used. Subsequent versions of Unicode and ISO
10646 have limited the upper bound to 0x10ffff.
Consequently, the current version of UTF-8, defined in
RFC 3629 does not require more than four octets to
encode a valid code point."

MODULE DOCS-CABLE-DEVICE-MIB

MANDATORY-GROUPS {

docsDevSoftwareGroupV2

```

    }

MODULE DOCS-IETF-BPI2-MIB
  MANDATORY-GROUPS {
    docsBpi2CodeDownloadGroup
  }

  ::= { pktcMtaCompliances 2 }

END

```

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-MTA-MIB

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

PKTC-IETF-SIG-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

  MODULE-IDENTITY,
  OBJECT-TYPE,
  Integer32,
  Unsigned32,
  mib-2
    FROM SNMPv2-SMI          -- [RFC2578]
  InetAddressType,
  InetAddress,
  InetPortNumber
    FROM INET-ADDRESS-MIB    -- [RFC4001]
  TEXTUAL-CONVENTION,
  RowStatus,
  TruthValue
    FROM SNMPv2-TC          -- [RFC2579]

```

```

  OBJECT-GROUP,
  MODULE-COMPLIANCE
    FROM SNMPv2-CONF        -- [RFC2580]
  SnmpAdminString
    FROM SNMP-FRAMEWORK-MIB  -- [RFC3411]
  ifIndex
    FROM IF-MIB              -- [RFC2863]
  Dscp
    FROM DIFFSERV-DSCP-TC;    -- [RFC3289]

```

pktcIetfSigMib MODULE-IDENTITY

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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.

Copyright (C) The IETF Trust (2008). This version of this MIB module is part of RFC 5098; see the RFC itself for full legal notices."

REVISION "200712180000Z"

DESCRIPTION

"Initial version, published as RFC 5098."

::= { mib-2 169 }

-- Textual Conventions

TenthdBm ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This TEXTUAL-CONVENTION represents power levels that are normally expressed in dBm. Units are in tenths of a dBm; for example, -13.5 dBm will be represented as -135."

SYNTAX Integer32

PktcCodecType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This TEXTUAL-CONVENTION defines various types of codecs

that MAY be supported. The description for each enumeration is listed below:

Enumeration	Description

other	a defined codec not in the enumeration

unknown	a codec not defined by the PacketCable

Codec Specification

g729	ITU-T Recommendation G.729

reserved	for future use

g729E	ITU-T Recommendation G.729E

pcmu	Pulse Code Modulation u-law (PCMU)

g726at32	ITU-T Recommendation G.726-32 (32 kbit/s)

g728	ITU-T Recommendation G.728

pcma	Pulse Code Modulation a-law (PCMA)

g726at16	ITU-T Recommendation G.726-16 (16 kbit/s)

g726at24	ITU-T Recommendation G.726-24 (24 kbit/s)

g726at40	ITU-T Recommendation G.726-40 (40 kbit/s)

ilbc	IETF Internet low-bit rate codec

bv16	Broadcom BroadVoice16

The list of codecs is consistent with the IETF

Real-Time Transport Protocol (RTP) Profile registry and

the RTP Map Parameters Table in PacketCable Audio/Video Codecs Specification [PKT-SP-CODEC]. The literal codec name for each codec is listed below:

Codec	Literal Codec Name

g729	G729
g729E	G729E
pcmu	PCMU
g726at32	G726-32
g728	G728
pcma	PCMA
g726at16	G726-16
g726at24	G726-24
g726at40	G726-40
ilbc	iLBC
bv16	BV16

The literal codec name is the second column of the table with codec RTP Map Parameters. The Literal Codec Name Column contains the codec name used in the local connection options (LCO) of the NCS messages create connection

(CRCX)/modify connection (MDCX) and is also used to identify the codec in the Call Management System (CMS) Provisioning Specification. The RTP Map Parameter column of the Table contains the string used in the media attribute line (a=) of the session description protocol (SDP) parameters in NCS messages."

SYNTAX INTEGER {

other (1),
unknown (2),
g729 (3),
reserved (4),
g729E (5),
pcmu (6),
g726at32 (7),
g728 (8),
pcma (9),
g726at16 (10),
g726at24 (11),
g726at40 (12),
ilbc (13),
bv16 (14)

}

PktrcRingCadence ::= 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)
}

```

```

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:

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

}

```

pkcSigDevCodecComboIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..255)
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        " The index value that enumerates a particular codec
          combination in the pkcSigDevCodecTable."
    ::=
    { pkcSigDevCodecEntry 1 }

pkcSigDevCodecType OBJECT-TYPE
    SYNTAX      PkcCodecType
    MAX-ACCESS   not-accessible
    STATUS       current

    DESCRIPTION
        " A codec type supported by this MTA."
    ::= { pkcSigDevCodecEntry 2 }

pkcSigDevCodecMax 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."
    ::= { pkcSigDevCodecEntry 3 }

--
-- These are the common signaling-related definitions that affect
-- the entire MTA device.
--

pkcSigDevEchoCancellation 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."
    ::= { pkcSigDevObjects 2 }

pkcSigDevSilenceSuppression 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 }

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."

::= { pkcSigDevObjects 8 }

pkcSigDevR4Cadence OBJECT-TYPE

SYNTAX PkcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 4 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 9 }

pktcSigDevR5Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 5 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 10 }

pktcSigDevR6Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 6 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 11 }

pktcSigDevR7Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 7 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 12 }

pktcSigDevRgCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence rg (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 13 }

pktcSigDevRsCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence rs (a user-defined field). The MTA MUST reject any attempt to make this object repeatable.

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 14 }

pktcSigDefCallSigDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"

The default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for call

signaling.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 15 }

pktcSigDefMediaStreamDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for media stream packets. The MTA MUST NOT

update this object with the value supplied by the CMS in the NCS messages (if present). Any currently active connections are not affected by updates to this object. When the value of this object is updated by SNMP, the MTA MUST use the new value as a default starting only from new connections.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 16 }

--
-- pktcSigCapabilityTable - This table defines the valid signaling
-- types supported by this MTA.
--

pktcSigCapabilityTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

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

::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry OBJECT-TYPE

SYNTAX PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" Entries in pktcMtaDevSigCapabilityTable - list of supported signaling types, versions, and vendor extensions

for this MTA. Each entry in the list provides for one signaling type and version combination. If the device supports multiple versions of the same signaling type, it

will require multiple entries."

INDEX { pktcSigCapabilityIndex }

::= { pktcSigCapabilityTable 1 }

PktcSigCapabilityEntry ::= SEQUENCE {

pktcSigCapabilityIndex Unsigned32,

pktcSigCapabilityType PktcSigType,

pktcSigCapabilityVersion SnmpAdminString,

```
pktcSigCapabilityVendorExt    SnmpAdminString
}
```

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

```
pktcSigCapabilityType    OBJECT-TYPE
    SYNTAX      PktcSigType
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
        " This object identifies the type of signaling used. This
          value has to be associated with a single signaling
          version."
    ::= { pktcSigCapabilityEntry
2 }
```

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

```
pktcSigCapabilityVendorExt    OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
        " The vendor extension allows vendors to provide a list of
```

additional capabilities.

The syntax for this MIB object in ABNF ([RFC5234]) is specified to be zero or more occurrences of vendor extensions, as follows:

```
pktcSigCapabilityVendorExt = *(vendor-extension)
```


vendor-extension = (ext symbol alphanum) DQUOTE ; DQUOTE
 ext = DQUOTE %x58 DQUOTE
 symbol = (DQUOTE %x2D DQUOTE)/(DQUOTE %x2D DQUOTE)
 alphanum = 1*6(ALPHA/DIGIT)

"

::= { pktcSigCapabilityEntry 4 }

pktcSigDefNcsReceiveUdpPort OBJECT-TYPE

SYNTAX InetPortNumber (1025..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA User Datagram Protocol (UDP)
 receive port that is being used for NCS call signaling.
 This object should only be changed by the configuration
 file.

Unless changed via configuration, this MIB object MUST
 reflect a value of '2427'."

REFERENCE

"PacketCable NCS Specification"

::= { pktcSigDevObjects 18 }

pktcSigPowerRingFrequency OBJECT-TYPE

SYNTAX INTEGER {

f20Hz(1),
 f25Hz(2),
 f33Point33Hz(3),
 f50Hz(4),
 f15Hz(5),
 f16Hz(6),
 f22Hz(7),
 f23Hz(8),
 f45Hz(9)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object must only be provided via the configuration
 file during the provisioning process. The power ring

frequency is the frequency at which the sinusoidal voltage
 must travel down the twisted pair to make terminal
 equipment ring. Different countries define different
 electrical characteristics to make terminal equipment

ring.

The f20Hz setting corresponds to a power ring frequency of 20 Hertz. The f25Hz setting corresponds to a power ring frequency of 25 Hertz. The f33Point33Hz setting corresponds to a power ring frequency of 33.33 Hertz. The f50Hz setting corresponds to a power ring frequency of 50 Hertz. The f15Hz setting corresponds to a power ring frequency of 15 Hertz. The f16Hz setting corresponds to a power ring frequency of 16 Hertz. The f22Hz setting corresponds to a power ring frequency of

22 Hertz. The

f23Hz setting corresponds to a power ring frequency of 23 Hertz. The f45Hz setting corresponds to a power ring frequency of 45 Hertz."

REFERENCE

"ETSI-EN-300-001"

::= { pktcSigDevObjects 19 }

pktcSigPulseSignalTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigPulseSignalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The Pulse signal table defines the pulse signal operation. There are nine types of international pulse signals, with each signal having a set of provisionable parameters. The values of the MIB objects in this table take effect only if these parameters are not defined via signaling, in which case, the latter determines the values of the parameters. The MIB objects in this table do not persist across MTA reboots."

REFERENCE

"ETSI-TS-101-909-4 Specification"

::= { pktcSigDevObjects
20 }

pktcSigPulseSignalEntry OBJECT-TYPE

SYNTAX PktcSigPulseSignalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the set of parameters associated with each particular value of pktcSigPulseSignalType. Each entry in the pktcSigPulseSignalTable is indexed by the pktcSigPulseSignalType object.

The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcSigPulseSignalType }

::= { pktcSigPulseSignalTable 1 }

```
PktcSigPulseSignalEntry ::= SEQUENCE {  
    pktcSigPulseSignalType      INTEGER,  
    pktcSigPulseSignalFrequency  INTEGER,  
    pktcSigPulseSignalDbLevel   TenthdBm,  
    pktcSigPulseSignalDuration  Unsigned32,  
    pktcSigPulseSignalPulseInterval  Unsigned32,  
    pktcSigPulseSignalRepeatCount  Unsigned32  
}
```

pktcSigPulseSignalType OBJECT-TYPE

SYNTAX INTEGER

```
{  
    initialRing(1),  
    pulseLoopClose(2),  
    pulseLoopOpen(3),  
    enableMeterPulse(4),  
    meterPulseBurst(5),  
    pulseNoBattery(6),  
    pulseNormalPolarity(7),  
    pulseReducedBattery(8),  
    pulseReversePolarity(9)  
}
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"There are nine types of international pulse signals. These signals are defined as follows:

initial ring

pulse loop close

pulse loop open

enable meter pulse

meter pulse burst

pulse no battery

pulse normal polarity

pulse reduced battery

pulse reverse polarity"

REFERENCE

"ETSI-EN-300-324-1 Specification"

::= { pktcSigPulseSignalEntry 1 }

pktcSigPulseSignalFrequency OBJECT-TYPE

SYNTAX INTEGER {

```

    twentyfive(1),

    twelvethousand(2),
    sixteenthousand(3)
}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    " This object is only applicable to the initialRing,
    enableMeterPulse, and meterPulseBurst signal types. This
    object identifies the frequency of the generated signal.
    The following table defines the default values for this
    object depending on signal type:

    pktcSigPulseSignalType    Default
    initialRing                25
    enableMeterPulse          16000
    meterPulseBurst           16000

    The value of twentyfive MUST only be used for the
    initialRing signal type. The values of twelvethousand and
    sixteenthousand MUST only be used for enableMeterPulse and
    meterPulseBurst signal types. An attempt to set this
    object while the value of pktcSigPulseSignalType is not
    initialRing,
    enableMeterPulse, or meterPulseBurst will
    result in an 'inconsistentValue' error."
REFERENCE
    "ETSI-EN-300-001 Specification"
    ::= { pktcSigPulseSignalEntry 2}

```

```

pktcSigPulseSignalDbLevel    OBJECT-TYPE
SYNTAX    TenthdBm (-350..0)
UNITS     "1/10 of a dBm"
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    " This object is only applicable to the enableMeterPulse and
    meterPulseBurst signal types. This is the decibel level
    for each frequency at which tones could be generated at
    the a and b terminals (TE connection point). An attempt to
    set this object while the value of pktcSigPulseSignalType
    is not enableMeterPulse or meterPulseBurst will result in
    an 'inconsistentValue' error."
REFERENCE

```

"ETSI-EN-300-001 Specification"

DEFVAL { -135 }

::={pktcSigPulseSignalEntry 3 }

pktcSigPulseSignalDuration OBJECT-TYPE

SYNTAX Unsigned32

(0..5000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the pulse duration for each signal type. In addition, the MTA must accept the values in the incremental steps specific for each signal type. The following table defines the default values and the incremental steps for this object depending on the signal type:

pktcSigPulseSignaltype	Default (ms)	Increment (ms)
initialRing	200	50
pulseLoopClose	200	10
pulseLoopOpen	200	10
enableMeterPulse	150	10
meterPulseBurst	150	10
pulseNoBattery	200	10
pulseNormalPolarity	200	10
pulseReducedBattery	200	10
pulseReversePolarity	200	10

An attempt to set this object to a value that does not fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

REFERENCE

"ETSI-EN-300-324-1 Specification"

::= {pktcSigPulseSignalEntry 4 }

pktcSigPulseSignalPulseInterval OBJECT-TYPE

SYNTAX Unsigned32 (0..5000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the repeat interval, or the period, for each signal type. In addition, the MTA must accept the values in the incremental steps specific for each signal type. The following table defines the default values and the incremental steps for this object, depending on the signal type:

pktcSigPulseSignaltype	Default (ms)	Increment (ms)
initialRing	200	50
pulseLoopClose	1000	10
pulseLoopOpen	1000	10

enableMeterPulse	1000	10
meterPulseBurst	1000	10
pulseNoBattery	1000	10
pulseNormalPolarity	1000	10
pulseReducedBattery	1000	10
pulseReversePolarity	1000	10

An attempt to set this object to a value that does not fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

REFERENCE

"ETSI-EN-300-324-1 Specification"
 ::= { pktcSigPulseSignalEntry 5}

pktcSigPulseSignalRepeatCount OBJECT-TYPE

SYNTAX Unsigned32 (1..50)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies how many times to repeat a pulse. This object is not used by the enableMeterPulse signal type, and in that case, the value is irrelevant. The following table defines the default values and the valid ranges for this object, depending on the signal type:

pktcSigPulseSignaltype	Default	Range
initialRing	1	1-5
pulseLoopClose	1	1-50
pulseLoopOpen	1	1-50
enableMeterPulse	(any value)(but not used)	
meterPulseBurst	1	1-50

pulseNoBattery	1	1-50
pulseNormalPolarity	1	1-50
pulseReducedBattery	1	1-50
pulseReversePolarity	1	1-50

An attempt to set this object to a value that does not fall within the range for the specific signal type will result in an 'inconsistentValue' error."

::={ pktcSigPulseSignalEntry 6 }

pktcSigDevCidMode OBJECT-TYPE

SYNTAX INTEGER {

duringRingingETS(1),

dtAsETS(2),

rpAsETS(3),

lrAsETS(4),

lrETS(5)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" For on-hook caller id, pktcSigDevCidMode selects the method for representing and signaling caller identification. For the duringRingingETS method, the Frequency Shift Keying (FSK) or the Dual-Tone Multi-Frequency (DTMF) containing the caller identification information is sent between the first and second ring pattern.

For the dtAsETS,rpAsETS, lrAsETS and lrETS methods, the FSK or DTMF containing the caller id information is sent before the first ring pattern.

For the dtAsETS method, the FSK or DTMF is sent after the Dual

Tone Alert Signal. For the rpAsETS method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first, then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { rpAsETS}
 ::= {pkcSigDevObjects 21 }

pkcSigDevCidAfterRing 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 pkcSigDevCidMode is set to a value of 'duringRingingETS'.

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	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 pkcSigDevCidMode 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 }

::= {pkcSigDevObjects 22 }

pkcSigDevCidAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS

read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Dual Tone Alert Signal (DT-AS) and the start of the transmission of the FSK or DTMF containing the caller id information. This object is only used when pktcSigDevCidMode is set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value

duringringingETS	any value (not used)
dtAsETS	50 ms
rpAsETS	any value (not used)
lrAsETS	50 ms
lrETS	any value (not used)

An attempt to set this object while the value of

pktcSigDevCidMode
is not 'dtAsETS' or 'lrAsETS' will
result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 23 }

pktcSigDevCidAfterRPAS OBJECT-TYPE

SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the caller id

information. This MIB object is only used when pktcSigDevCidMode is set to a value of 'rpAsETS'. The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value
duringringingETS	any value (not used)
dtAsETS	any value (not used)
rpAsETS	650 ms
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt to set this object while the value of pktcSigDevCidMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 24 }

pktcSigDevRingAfterCID OBJECT-TYPE

SYNTAX Unsigned32 (0|50..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the complete transmission of the FSK or DTMF containing the caller

id information and the start of the first ring

pattern. It is only used when pktcSigDevCidMode is set to a value of 'dtAsETS', 'rpAsETS', 'lrAsETS' or 'lrETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value

duringringingETS	any value (not used)
dtAsETS	250 ms
rpAsETS	250 ms
lrAsETS	250 ms
lrETS	250 ms

An attempt to set this object while the value of pktcSigDevCidMode is not 'dtAsETS', 'rpAsETS', 'lrAsETS', or 'lrETS' will result in an 'inconsistent value' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 25 }

pktcSigDevCidDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS). This object is only used when pktcSigDevCidMode is set to a value of 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value

duringringingETS	any value (not used)
dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	250 ms
lrETS	any value (not used)

An attempt to set this object while the value of

pktcSigDevCidMode is not lrAsETS will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 26 }

pktcSigDevVmwiMode OBJECT-TYPE

SYNTAX INTEGER {
 dtAsETS(1),
 rpAsETS(2),
 lrAsETS(3),
 osi(4),
 lrETS(5)
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" For visual message waiting indicator (VMWI),
pktcSigDevVmwiMode selects the alerting signal method. For
the dtAsETS, rpAsETS, lrAsETS, osi, and lrETS methods,
the FSK containing the VMWI information is sent after an
alerting signal.

For the dtAsETS method,
the FSK, or DTMF
is sent after the Dual Tone Alert Signal. For the rpAsETS
method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first,
then the Dual Tone Alert Signal, and, finally, the FSK or
DTMF is sent.

For the OSI method, the FSK or DTMF is sent after the Open
Switching Interval.

For the lrETS method, the Line Reversal occurs first,
then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { rpAsETS }
::= {pktcSigDevObjects 27 }

pktcSigDevVmwiAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the
Dual Tone Alert Signal (DT-AS) and the start of the
transmission of the

FSK or DTMF containing the VMWI
information.

This object is only used when pktcSigDevVmwiMode is
set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values
for this MIB object, depending on the signal type
(pktcSigDevVmwiMode), and MUST be followed:

Value of pktcSigDevVmwiMode	Default value

dtAsETS	50 ms
rpAsETS	any value (not used)
lrAsETS	50 ms
lrETS	any value (not used)

An attempt to set this object while the value of
pktcSigDevVmwiMode is not 'dtAsETS' or 'lrAsETS' will
result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 28

}

pktcSigDevVmwiAfterRPAS OBJECT-TYPE

SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

Value of pktcSigDevVmwiMode	Default value
dtAsETS	any value (not used)
rpAsETS	650 ms
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 29 }

pktcSigDevVmwiDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (0|50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS) for VMWI information. This object is only used when pktcSigDevVmwiMode is set to a value of 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type

(pktcSigDevVmwiMode), and MUST be followed:

Value of pktcSigDevVmwiMode

Default value

dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	250 ms
lrETS	any value (not used)

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= { pktcSigDevObjects 30 }

pktcSigDevRingCadenceTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigDevRingCadenceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Cadence rings are defined by the telco governing body for each country. The MTA must be able to support various ranges of cadence patterns and cadence periods. The

MTA will be able to support country-specific provisioning of the cadence and idle period. Each cadence pattern will be assigned a unique value ranging from 0-127 (inclusive) corresponding to the value of x, where x is the value sent in the cadence ringing (cr) signal cr(x), requested per the appropriate NCS message, and defined in the E package. The MTA will derive the cadence periods from the ring cadence table entry, as provisioned by the customer. The MTA is allowed to provide appropriate default values for each of the ring cadences. This table only needs to be supported when the MTA implements the E package."

REFERENCE

"ETSI-TS-101-909-4 Specification"

::= { pktcSigDevObjects 31 }

pkcSigDevRingCadenceEntry OBJECT-TYPE

SYNTAX PkcSigDevRingCadenceEntry

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 { pkcSigDevRingCadenceIndex }

::= { pkcSigDevRingCadenceTable 1 }

PkcSigDevRingCadenceEntry ::= 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 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

pkcSigDevMultiFreqToneTable."

REFERENCE

"PacketCable NCS Specification, ETSI-TS-101-909-4
Specification."

::= { pkcSigDevObjects 32 }

pkcSigDevToneEntry OBJECT-TYPE

SYNTAX PkcSigDevToneEntry

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 { pkcSigDevToneType, pkcSigDevToneFreqGroup }

::= { pkcSigDevToneTable 1 }

PkcSigDevToneEntry ::= SEQUENCE {

pkcSigDevToneType INTEGER,
pkcSigDevToneFreqGroup Unsigned32,
pkcSigDevToneFreqCounter Unsigned32,
pkcSigDevToneWholeToneRepeatCount Unsigned32,
pkcSigDevToneSteady TruthValue
}

pkcSigDevToneType 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 'pkcSigDevToneTable' 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."

::={ pkcSigDevToneEntry 5 }

pkcSigDevMultiFreqToneTable OBJECT-TYPE
SYNTAX SEQUENCE OF PkcSigDevMultiFreqToneEntry
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 pkcSigDevToneTable need to be considered for MIB objects in this table as well.

The MTA MUST populate the corresponding row(s) of the pkcSigDevMultiFreqToneTable for each tone defined in the pkcSigDevToneTable.

The contents of the table may be provisioned via

MTA configuration."

REFERENCE

"PacketCable NCS Specification, ETSI-TS-101-909-4
Specification."

::= { pkcSigDevObjects 33 }

pkcSigDevMultiFreqToneEntry OBJECT-TYPE

SYNTAX PkcSigDevMultiFreqToneEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The different tone types with multiple frequencies
that can be provisioned based on country-specific
needs."

INDEX {pkcSigDevToneType, pkcSigDevToneNumber}

::= { pkcSigDevMultiFreqToneTable 1 }

PkcSigDevMultiFreqToneEntry ::= SEQUENCE {

pkcSigDevToneNumber	Unsigned32,
pkcSigDevToneFirstFreqValue	Unsigned32,
pkcSigDevToneSecondFreqValue	Unsigned32,
pkcSigDevToneThirdFreqValue	Unsigned32,
pkcSigDevToneFourthFreqValue	Unsigned32,
pkcSigDevToneFreqMode	INTEGER,
pkcSigDevToneFreqAmpModePrtg	Unsigned32,
pkcSigDevToneDbLevel	TenthdBm,
pkcSigDevToneFreqOnDuration	Unsigned32,
pkcSigDevToneFreqOffDuration	Unsigned32,
pkcSigDevToneFreqRepeatCount	Unsigned32

}

pkcSigDevToneNumber 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."

::={ pkcSigDevMultiFreqToneEntry 1 }

pkcSigDevToneFirstFreqValue 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> <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> <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> <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> <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 }

pktcSigDevvpAsDtsDuration OBJECT-TYPE

SYNTAX Unsigned32 (0|200..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the duration of the rpASDTS ring

pulse prior to the start of the transmission of the

FSK or DTMF containing the caller id information. It is only used when pktcSigDevCidMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value

duringringingETS	any value (not used)
dtAsETS	any value (not used)
rpAsETS	250
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt to set this object while the value of pktcSigDevCidMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification and Belgacom BGC_D_48_9811_30_09_EDOC version 3.3"

DEFVAL { 250 }

::= {pktcSigDevObjects 41 }

--

-- The Endpoint Config Table is used to define attributes that
-- are specific to connection EndPoints.

--

pktcSigEndPntConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigEndPntConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table describes the information pertaining to each endpoint of the MTA. All entries in this table represent

the provisioned endpoints provisioned with the information required by the MTA to maintain the NCS protocol communication with the CMS. Each endpoint can be assigned to its own CMS. If the specific endpoint does not have the corresponding CMS information in this table, the endpoint is considered as not provisioned with voice services. Objects in this table do not persist across MTA reboots."

```
::= { pktcSigEndPntConfigObjects 1 }
```

pktcSigEndPntConfigEntry OBJECT-TYPE

SYNTAX PktcSigEndPntConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Each entry in the pktcSigEndPntConfigTable represents required signaling parameters for the specific endpoint provisioned with voice services. The conceptual rows MUST NOT persist across MTA reboots."

INDEX { ifIndex }

```
::= { pktcSigEndPntConfigTable 1 }
```

PktcSigEndPntConfigEntry ::= SEQUENCE {

pktcSigEndPntConfigCallAgentId	SnmpAdminString,
pktcSigEndPntConfigCallAgentUdpPort	InetPortNumber,
pktcSigEndPntConfigPartialDialTO	Unsigned32,
pktcSigEndPntConfigCriticalDialTO	Unsigned32,
pktcSigEndPntConfigBusyToneTO	Unsigned32,
pktcSigEndPntConfigDialToneTO	Unsigned32,
pktcSigEndPntConfigMessageWaitingTO	Unsigned32,
pktcSigEndPntConfigOffHookWarnToneTO	Unsigned32,
pktcSigEndPntConfigRingingTO	Unsigned32,
pktcSigEndPntConfigRingBackTO	Unsigned32,
pktcSigEndPntConfigReorderToneTO	Unsigned32,
pktcSigEndPntConfigStutterDialToneTO	Unsigned32,

pktcSigEndPntConfigTSMax	Unsigned32,
pktcSigEndPntConfigMax1	Unsigned32,
pktcSigEndPntConfigMax2	Unsigned32,
pktcSigEndPntConfigMax1QEnable	TruthValue,
pktcSigEndPntConfigMax2QEnable	TruthValue,
pktcSigEndPntConfigMWD	Unsigned32,
pktcSigEndPntConfigTdinit	Unsigned32,
pktcSigEndPntConfigTdmin	Unsigned32,

```

pktcSigEndPntConfigTdmax      Unsigned32,
pktcSigEndPntConfigRtoMax     Unsigned32,
pktcSigEndPntConfigRtoInit
    Unsigned32,
pktcSigEndPntConfigLongDurationKeepAlive Unsigned32,
pktcSigEndPntConfigThist      Unsigned32,
pktcSigEndPntConfigStatus     RowStatus,
pktcSigEndPntConfigCallWaitingMaxRep Unsigned32,
pktcSigEndPntConfigCallWaitingDelay Unsigned32,
pktcSigEndPntStatusCallIpAddressType InetAddressType,
pktcSigEndPntStatusCallIpAddress InetAddress,
pktcSigEndPntStatusError      INTEGER,
pktcSigEndPntConfigMinHookFlash Unsigned32,
pktcSigEndPntConfigMaxHookFlash Unsigned32,
pktcSigEndPntConfigPulseDialInterdigitTime Unsigned32,
pktcSigEndPntConfigPulseDialMinMakeTime Unsigned32,
pktcSigEndPntConfigPulseDialMaxMakeTime Unsigned32,
pktcSigEndPntConfigPulseDialMinBreakTime Unsigned32,
pktcSigEndPntConfigPulseDialMaxBreakTime Unsigned32
}

```

pktcSigEndPntConfigCallAgentId OBJECT-TYPE

SYNTAX SnmpAdminString(SIZE

(3..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains a string indicating the call agent name (e.g., ca@example.com). The call agent name, after the character '@', MUST be a fully qualified domain name (FQDN) and MUST have a corresponding pktcMtaDevCmsFqdn entry in the pktcMtaDevCmsTable. The object pktcMtaDevCmsFqdn is defined in the PacketCable MIBMTA Specification. For each particular endpoint, the MTA MUST use the current value of this object to communicate with the corresponding CMS. The MTA MUST update this object with the value of the 'Notified Entity' parameter of the NCS message. Because of the high importance of this object to the ability of the MTA to maintain reliable NCS communication with the CMS, it is highly recommended not to change this object's value using SNMP during normal

operation."

::= { pktcSigEndPntConfigEntry 1 }

pkcSigEndPntConfigCallAgentUdpPort 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 }

::= { pkcSigEndPntConfigEntry 2 }

pkcSigEndPntConfigPartialDialTO 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 }

::= { pkcSigEndPntConfigEntry 3 }

pkcSigEndPntConfigCriticalDialTO 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 }

pkcSigEndPntConfigOffHookWarnToneTO 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 }

::= { pkcSigEndPntConfigEntry 8 }

pkcSigEndPntConfigRingingTO 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 }

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 pkcELinePackageGroup

DESCRIPTION

" This group is mandatory only
for MTAs implementing the E
Line Package."

::={ pkcSigCompliances 1 }

pkcSigDeviceGroup OBJECT-GROUP

OBJECTS {

pkcSigDevCodecMax,
pkcSigDevEchoCancellation,
pkcSigDevSilenceSuppression,
pkcSigDevR0Cadence,
pkcSigDevR1Cadence,
pkcSigDevR2Cadence,
pkcSigDevR3Cadence,

pkcSigDevR4Cadence,
pkcSigDevR5Cadence,
pkcSigDevR6Cadence,
pkcSigDevR7Cadence,
pkcSigDevRgCadence,
pkcSigDevRsCadence,
pkcSigDefCallSigDscp,
pkcSigDefMediaStreamDscp,
pkcSigDevVmwMode,
pkcSigCapabilityType,
pkcSigCapabilityVersion,
pkcSigCapabilityVendorExt,
pkcSigDefNcsReceiveUdpPort
}

STATUS current

DESCRIPTION

"Group of MIB objects containing signaling configuration
information that is applicable per-device."

::= { pkcSigGroups 1 }

pkcSigEndpointGroup OBJECT-GROUP

OBJECTS {

pkcSigEndPntConfigCallAgentId,
pkcSigEndPntConfigCallAgentUdpPort,

pkcSigEndPntConfigPartialDialTO,
pkcSigEndPntConfigCriticalDialTO,

pktcSigEndPntConfigBusyToneTO,
 pktcSigEndPntConfigDialToneTO,
 pktcSigEndPntConfigMessageWaitingTO,
 pktcSigEndPntConfigOffHookWarnToneTO,
 pktcSigEndPntConfigRingingTO,
 pktcSigEndPntConfigRingBackTO,
 pktcSigEndPntConfigReorderToneTO,
 pktcSigEndPntConfigStutterDialToneTO,
 pktcSigEndPntConfigTSMax,
 pktcSigEndPntConfigMax1,
 pktcSigEndPntConfigMax2,
 pktcSigEndPntConfigMax1QEnable,
 pktcSigEndPntConfigMax2QEnable,
 pktcSigEndPntConfigMWD,
 pktcSigEndPntConfigTdinit,
 pktcSigEndPntConfigTdmin,
 pktcSigEndPntConfigTdmax,
 pktcSigEndPntConfigRtoMax,
 pktcSigEndPntConfigRtoInit,
 pktcSigEndPntConfigLongDurationKeepAlive,
 pktcSigEndPntConfigThist,
 pktcSigEndPntConfigStatus,

pktcSigEndPntConfigCallWaitingMaxRep,
 pktcSigEndPntConfigCallWaitingDelay,
 pktcSigEndPntStatusCallIpAddressType,
 pktcSigEndPntStatusCallIpAddress,
 pktcSigEndPntStatusError
 }

STATUS current

DESCRIPTION

"Group of MIB objects containing signaling configuration
 information that is applicable per-endpoint."

::= { pktcSigGroups 2 }

pktcInternationalGroup OBJECT-GROUP

OBJECTS {

pktcSigEndPntConfigMinHookFlash,
 pktcSigEndPntConfigMaxHookFlash,
 pktcSigEndPntConfigPulseDialInterdigitTime,
 pktcSigEndPntConfigPulseDialMinMakeTime,
 pktcSigEndPntConfigPulseDialMaxMakeTime,
 pktcSigEndPntConfigPulseDialMinBreakTime,
 pktcSigEndPntConfigPulseDialMaxBreakTime,
 pktcSigDevRingCadence,
 pktcSigDevCidSigProtocol,

pktcSigDevCidDelayAfterLR,
 pktcSigDevCidDtmfStartCode,
 pktcSigDevCidDtmfEndCode,
 pktcSigDevVmwiSigProtocol,
 pktcSigDevVmwiDelayAfterLR,
 pktcSigDevVmwiDtmfStartCode,
 pktcSigDevVmwiDtmfEndCode,
 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):

* /mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-SIG-MIB

1.326 springsource-javax-jms 1.1.0

1.326.1 Available under license :

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

```
/*
 * @(#)ObjectMessage.java 1.19 02/04/09
 *
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 *
 */
```

Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/ObjectMessage.java

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

```
/*
 * @(#)ResourceAllocationException.java 1.4 01/02/16
 *
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 *
 */
```

Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/ServerSession.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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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/ServerSessionPool.java

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/*
* @(#)StreamMessage.java 1.40 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/StreamMessage.java

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/*
* @(#)MessageProducer.java 1.25 02/04/09
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*
*/

Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/MessageProducer.java

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

/*
* @(#)Destination.java 1.16 02/04/09
*
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/Destination.java

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/*
* @(#)InvalidClientIDException.java 1.8 02/04/09
*
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/InvalidClientIDException.java

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

/*
* @(#)Topic.java 1.17 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/Topic.java

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/*
* @(#)TopicPublisher.java 1.30 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TopicPublisher.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)QueueConnection.java 1.22 02/04/10
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueConnection.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)ConnectionFactory.java 1.11 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/ConnectionFactory.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)InvalidDestinationException.java 1.8 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/InvalidDestinationException.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)DeliveryMode.java 1.9 02/04/09
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No license file was found, but licenses were detected in source scan.

/*
* @(#)QueueReceiver.java 1.21 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueReceiver.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)TemporaryQueue.java 1.13 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TemporaryQueue.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)Connection.java 1.22 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/Connection.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)Queue.java 1.16 02/04/09
*
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/Queue.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)MapMessage.java 1.35 02/04/09
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No license file was found, but licenses were detected in source scan.

/*
* @(#)ExceptionListener.java 1.8 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/ExceptionListener.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)XAQueueSession.java 1.11 02/04/09
*
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XAQueueSession.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)InvalidSelectorException.java 1.6 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/InvalidSelectorException.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)TemporaryTopic.java 1.11 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TemporaryTopic.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)XATopicSession.java 1.12 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XATopicSession.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)JMSSecurityException.java 1.8 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/JMSSecurityException.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)Session.java 1.44 02/04/10
*
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/Session.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)JMSEException.java 1.15 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/JMSEException.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)TopicSubscriber.java 1.28 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TopicSubscriber.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)MessageNotReadableException.java 1.7 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/MessageNotReadableException.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)TopicRequestor.java 1.20 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TopicRequestor.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)QueueBrowser.java 1.20 02/04/09
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No license file was found, but licenses were detected in source scan.

/*
* @(#)QueueSession.java 1.26 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueSession.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)TopicSession.java 1.40 02/04/10
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TopicSession.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)QueueSender.java 1.29 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueSender.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)XASession.java 1.18 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XASession.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)TransactionInProgressException.java 1.8 02/04/09
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No license file was found, but licenses were detected in source scan.

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* @(#)XAConnection.java 1.8 02/04/09
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Found in path(s):

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

/*
* @(#)XAConnectionFactory.java 1.14 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XATopicConnectionFactory.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)QueueRequestor.java 1.21 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueRequestor.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)MessageNotWriteableException.java 1.7 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/MessageNotWriteableException.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)XAQueueConnectionFactory.java 1.14 02/04/09
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Found in path(s):

* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XAQueueConnectionFactory.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)BytesMessage.java 1.31 02/04/09
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Found in path(s):

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

/*
* @(#)MessageFormatException.java 1.7 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/MessageFormatException.java
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/*
* @(#)ConnectionConsumer.java 1.16 02/04/09
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/*
* @(#)TopicConnection.java 1.19 02/04/09
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/*
* @(#)TransactionRolledBackException.java 1.7 02/04/09
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/*
* @(#)ResourceAllocationException.java 1.6 02/04/09
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/*
* @(#)XATopicConnection.java 1.17 02/04/09
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/*
* @(#)XAQueueConnection.java 1.17 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XAQueueConnection.java

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* @(#)ConnectionMetaData.java 1.11 02/04/09
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* @(#)MessageEOFException.java 1.8 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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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/TopicConnectionFactory.java
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/*
* @(#)Message.java 1.60 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/Message.java
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/*
* @(#)XAConnectionFactory.java 1.10 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XAConnectionFactory.java
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/*
* @(#)QueueConnectionFactory.java 1.14 02/04/23
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueConnectionFactory.java
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/*
* @(#)MessageConsumer.java 1.19 02/04/09
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No license file was found, but licenses were detected in source scan.

/*
* @(#)IllegalStateException.java 1.7 02/04/09
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/*
* @(#)TextMessage.java 1.17 02/04/09
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1.327 yang-model-api 0.8.4-Beryllium-SR4

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1.328 spring-security-acl 3.2.4.RELEASE

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* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/SpringCacheBasedAclCache.java
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Found in path(s):

```
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/Acl.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/PrincipalSid.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/BasePermission.java
*
/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationProvider.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/AclCache.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/AuditableAcl.java
```

```

* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/MutableAcl.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/ObjectIdentityRetrievalStrategyImpl.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/AuditableAccessControlEntry.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/afterinvocation/AbstractAclProvider.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/CumulativePermission.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/EhCacheBasedAclCache.java
*
/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/OwnershipAcl.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/IdentityUnavailableException.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/Permission.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/AclService.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/ObjectIdentityImpl.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/AlreadyExistsException.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/GrantedAuthoritySid.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/MutableAclService.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/afterinvocation/Filterer.java
*
/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/jdbc/LookupStrategy.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/AccessControlEntry.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AclAuthorizationStrategyImpl.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/Sid.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/SidRetrievalStrategyImpl.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/ConsoleAuditLogger.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationCollectionFilteringProvider.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AclAuthorizationStrategy.java
*
/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/AclImpl.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/afterinvocation/CollectionFilterer.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/ObjectIdentity.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/jdbc/BasicLookupStrategy.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/jdbc/JdbcMutableAclService.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/AclEntryVoter.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/afterinvocation/ArrayFilterer.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/NotFoundException.java

```

```
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/UnloadedSidException.java
*
/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/AclFormattingUtils.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/ObjectIdentityRetrievalStrategy.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/SidRetrievalStrategy.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/ChildrenExistException.java
* /spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AccessControlEntryImpl.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/jdbc/JdbcAclService.java
* /spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/AuditLogger.java
```

1.329 httpmime 4.2.3

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```
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/AssertFalseDef.java
*
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/LengthDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/MinDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/FutureDef.java
```

```

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/MaxDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/SizeDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/ConstructorInstance.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/DigitsDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/CreditCardNumberDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/NullDef.java
*
/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/NotNullDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/PatternDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/ScriptAssertDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/RangeDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/DecimalMinDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/PastDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/CascadeDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintMapping.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/DecimalMaxDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/NotBlankDef.java
*
/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintsForType.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/AssertTrueDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintDefWrapper.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/GenericConstraintDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/EmailDef.java

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```

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`/hibernate-validator-4-1-0-final-sources-`

`zip/org/hibernate/validator/constraints/impl/MaxValidatorForNumber.java`

`/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/ConfigurationImpl.java`

*

```
/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/ScriptAssert.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/annotationfactory/AnnotationProxy.java
* /hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/util/annotationfactory/AnnotationDescriptor.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/ScriptAssertValidator.java
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zip/org/hibernate/validator/constraints/impl/scriptassert/ScriptEvaluator.java
* /hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/resourceloading/AggregateResourceBundleLocator.java
*
/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/resourceloading/CachingResourceBundleLocator.java
* /hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/impl/scriptassert/ScriptEvaluatorFactory.java
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- * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/GetDeclaredField.java
- *
 - /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/DecimalMaxValidatorForNumber.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/NotEmpty.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/groups/GroupChain.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/LuhnValidator.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForString.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/xml/ValidationBootstrapParameters.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/PathImpl.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/PropertyDescriptorImpl.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/IdentitySet.java
 - *
 - /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/GetClassLoader.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/AnnotationIgnores.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/MessageAndPath.java
 - * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/MaxValidatorForString.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/xml/ValidationXmlParser.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/Length.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/groups/GroupChainGenerator.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/GetMethods.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/LazyValidatorFactory.java
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 * /hibernate-validator-4-1-0-final-sources-
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 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/ElementDescriptorImpl.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/GetDeclaredFields.java
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 * /hibernate-validator-4-1-0-final-sources-
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 * /hibernate-validator-4-1-0-final-sources-
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/AssertTrueValidator.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForMap.java
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 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForArrayOfChar.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/BeanMetaData.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/GetDeclaredMethods.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/resolver/DefaultTraversableResolver.java
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 *
 /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/ConstraintValidatorContextImpl.java
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 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/annotationfactory/AnnotationFactory.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForArrayOfDouble.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/ConstraintDescriptorImpl.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/NewInstance.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/Range.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/ConstraintOrigin.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/SetAccessibility.java
 *
 /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForArrayOfShort.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/MinValidatorForNumber.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/FutureValidatorForCalendar.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/AssertFalseValidator.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForArrayOfPrimitives.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/Email.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/ConstraintHelper.java
 *
 /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/GetMethod.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/resolver/JPATraversableResolver.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForArray.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/groups/Group.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/HibernateValidatorConfiguration.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/LengthValidator.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/NullValidator.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/PastValidatorForDate.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/ValidatorFactoryImpl.java
 * /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/CreditCardNumber.java

*
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/groups/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/annotationfactory/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/scriptassert/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/messageinterpolation/package.html
*
/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/package.html
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/package.html
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/URLValidator.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/URL.java
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/PatternValidator.java

*

/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/ValidationContext.java

* /hibernate-validator-4-1-0-final-sources-

zip/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/Version.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/BeanMetaDataImpl.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/LoggerFactory.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/ReflectionHelper.java

* /hibernate-validator-4-1-0-final-sources-

zip/org/hibernate/validator/resourceloading/DelegatingResourceBundleLocator.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/resourceloading/ResourceBundleLocator.java

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/ValidatorImpl.java

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Found in path(s):

* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/URLDef.java

1.331 yang-model-util 0.8.4-Beryllium-SR4

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1.332 mvel2 2.2.8.Final

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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):

```
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/Textifier.java
```

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```

/**
 * MVEL 2.0
 * Copyright (C) 2007 The Codehaus
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 *
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```

Found in path(s):

```

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Assignment.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/Soundex.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DeepAssignmentNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/BaseVariableResolverFactory.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DoUntilNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/PropertyHandler.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/FastList.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledEvalNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CommentNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/DefaultLocalVariableResolverFactory.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExecutableAccessorSafe.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/InternalNumber.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/InterceptorWrapper.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicOptimizer.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicSetAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ParserContext.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/ResolverTools.java

```

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*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/TextNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/ShellSession.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/UnresolveablePropertyException.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/BigDecimalCH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/MethodStub.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/LiteralDeepPropertyNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/text/TextUtil.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/CommandException.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateSyntaxError.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/Opcodes.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/CommandSet.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/BigIntegerCH.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledExpressionNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/Set.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/AccessorOptimizer.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ASTLinkedList.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/Exit.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/AbstractOptimizer.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/Unit.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/BlankLiteral.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/CharArrayCH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/StaticMethodImportResolver.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/util/TemplateTools.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/Debugger.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DeclTypedVarNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ByteCH.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/ForEachNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/SimpleTemplateRegistry.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/TypeInjectionResolverFactory.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/InlineCollectionNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/CompiledTemplate.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledNamedIncludeNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedPreFixDecNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ProtoVarNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/PreFixIncNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateRegistry.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/PropertyAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/PropertyAccessException.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/SetCH.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Fold.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/CollectionParser.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/StaticImportNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Substatement.java

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- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/Command.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/CompiledExpression.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ForNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExpressionCompiler.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ReflectionUtil.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/FloatCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/Converter.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ImmutableElementException.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/file/ChangeWorkingDir.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/PropertyHandlerFactory.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedOperativeAssign.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/file/FileCommandSet.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/VariableResolverFactory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ThisLiteral.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ArrayCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/TypeCast.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/StringCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/ObjectInspector.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/CachingMapVariableResolverFactory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Contains.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/WhileNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/ItemResolverFactory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/Stack.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/PostFixDecNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/AssignmentNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ImportNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Invert.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/LineLabel.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Or.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/OperativeAssign.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/BinaryOperation.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/PreProcessor.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/MapVariableResolver.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/DataConversion.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ArrayHandler.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedPreFixIncNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateError.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/asm/ProducesBytecode.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/NamedIncludeNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicClassLoader.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/AbstractParser.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Union.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicCollectionAccessor.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/ReflectiveAccessorOptimizer.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/OptimizerHook.java

- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/asm/ASMAccessorOptimizer.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/PostFixIncNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExecutableStatement.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/DebuggerContext.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/CompileException.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedDeclTypedVarNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ExecutionStack.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ParseTools.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/BooleanCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/AccessorNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/file/PrintWorkingDirectory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ObjectCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExecutableLiteral.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/ShowVars.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedAssignmentNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/TypeDescriptor.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Safe.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledIfNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateCompiler.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/NestedStatement.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/LongCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedPostFixDecNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/TypedVarNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/Operator.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/PrimIntArrayCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/DefaultEnvironment.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IfNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/IncludeNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/IntArrayCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/DoubleCH.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/IndexedVariableResolverFactory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateRuntimeError.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/ImmutableDefaultFactory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/MVELInterpretedRuntime.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/OptimizerFactory.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ASTNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/LiteralNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ConversionException.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ParserConfiguration.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/CompilerTools.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/MVELClassLoader.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/OptimizationFailure.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/NewObjectNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/EndNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/IntegerCH.java


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* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledForEachNode.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/PropertyVerifier.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateRuntime.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IsDef.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateDebug.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledIncludeNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/LocalVariableResolverFactory.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/DeclareNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/StringAppender.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ListCH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/IfNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledDeclareNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/OptimizationNotSupported.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/FunctionVariableResolverFactory.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/MacroProcessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/math/MathProcessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicGetAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/WithNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Function.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DeclProtoVarNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/UnitConversion.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledCodeNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Negation.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/Interceptor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/RegExMatch.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/Accessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/PushContext.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/StringArrayCH.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/DebugTools.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/BlockNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/PreFixDecNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/EvalNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/TerminalExpressionNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/AssertNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/Frame.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/SimpleValueResolver.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/TerminalNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/BasicCommandSet.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/SimpleSTValueResolver.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/PropertyTools.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/ClassImportResolverFactory.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/RegExMatchNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CodeNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/Macro.java

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* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/StaticMethodImportResolverFactory.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/EndWithValue.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/JITClassLoader.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/Main.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ASTIterator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/UntilNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ReturnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/CompiledAccExpression.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledTerminalExpressionNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/ExpressionNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/Help.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ThisWithNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DoNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/And.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedPostFixIncNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ArraySize.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ShortCH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/util/ArrayIterator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/CharCH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/MapVariableResolverFactory.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ArrayTools.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/OperatorNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ForEachNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/file/DirList.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/Node.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/StackElement.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/EndOfStatement.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/MVELRuntime.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/VariableResolver.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExecutableAccessor.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):

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/ClassNode.java

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- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/package.html
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/package.html
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/package.html
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/package.html

*

/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/package.html

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/package.html

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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):

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/JSRInlinerAdapter.java

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- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/SAXCodeAdapter.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/Processor.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/SAXFieldAdapter.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/SAXAdapter.java
- *
- /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/SAXAnnotationAdapter.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/SAXClassAdapter.java

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- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Context.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InnerClassNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/MethodNode.java
- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingAnnotationAdapter.java

```

*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassReader.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SmallSet.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/StaticInitMerger.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/AnnotationVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/BasicVerifier.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LocalVariableNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LabelNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceFieldVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InsnList.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/TryCatchBlockSorter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/AnalyzerException.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/JumpInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FieldInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Label.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Attribute.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SimpleVerifier.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FieldNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Value.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/FieldWriter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckMethodAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/ASMifier.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/CodeSizeEvaluator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Opcodes.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TableSwitchInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FrameNode.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/MethodInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Handler.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/AnnotationWriter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/AnnotationNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/MethodVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TypeInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/SimpleRemapper.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckClassAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Frame.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceAnnotationVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/ParameterNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/Remapper.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/InstructionAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LineNumberNode.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Subroutine.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Type.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/IntInsnNode.java

```



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* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceMethodVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureWriter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/FieldVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassWriter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Edge.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/AdviceAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingSignatureAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureReader.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SourceValue.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LdcInsnNode.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingFieldAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Analyzer.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/VarInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckFieldAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LookupSwitchInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Item.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/BasicValue.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/Printer.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/AbstractInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingClassAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceClassVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/BasicInterpreter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/LocalVariablesSorter.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ByteVector.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingMethodAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InvokeDynamicInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/MultiANewArrayInsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SourceInterpreter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/Method.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InsnNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Frame.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TryCatchBlockNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TypeAnnotationNode.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/SerialVersionUIDAdder.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/MethodWriter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Interpreter.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckAnnotationAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckSignatureAdapter.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceSignatureVisitor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Handle.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/TableSwitchGenerator.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.
- */

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* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/GeneratorAdapter.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):

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/AnalyzerAdapter.java

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```

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedVariableAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
*
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessorNH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/ListCreator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/ExprValueAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayLength.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/ArrayCreator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/Union.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ConstructorAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFieldAccessor.java
*

```

```

/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/MArrayCreator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/collection/MapCreator.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessorNH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/VariableAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessorNest.java
*
/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/BaseAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/StaticReferenceAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFunctionAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessor.java
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Found in path(s):

```

* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ConversionHandler.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/DataTypes.java
* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/ErrorDetail.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.
*/

```

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* /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LocalVariableAnnotationNode.java

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- * /mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/TypeReference.java

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```
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/IndexPrecedenceOption.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/cdi/qualifier/PerProcessInstance.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/KieHelper.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/cdi/BootOnLoad.java
```

```

*
/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/InternalRuntimeManager.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/PropertySpecificOption.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/definition/KnowledgePackage.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/impl/KieInternalServicesImpl.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/STATUS.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/context/ProcessInstanceIdContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/context/CorrelationKeyContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/PermGenThresholdOption.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/command/ShadowWorld.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/task/TaskFluent.java
*
/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/cdi/BootOnLoadExtension.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/InternalKieBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/IncrementalResults.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/CompositeKnowledgeBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/ExecutionResults.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/ContextFluent.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/EventListenerProducer.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskInstanceService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/ContentMarshallerContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/RegisterableItemsFactory.java
*
/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskDefService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/Executor.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/model/TaskDef.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/event/rule/RuleEventListener.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskIdentityService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/cdi/qualifier/PerRequest.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/Disposable.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/ExecutorAdminService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/process/CorrelationKeyFactory.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/definition/KnowledgeDefinition.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/definition/KnowledgeDescr.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/RuntimeEnvironment.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/CommandContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/model/TaskEvent.java
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/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskContentService.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/process/CorrelationAwareProcessRuntime.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/InternalTaskService.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/event/KnowledgeRuntimeEventManager.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/context/EmptyContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/logger/KnowledgeRuntimeLogger.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/KnowledgeRuntime.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/runtime/KieSessionFluent.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/ErrorInfo.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/concurrent/ExecutorProviderFactory.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/process/CorrelationKey.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/event/rule/ActivationUnMatchListener.java
*
/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskAttachmentService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/KnowledgeContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskAdminService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/SessionNotFoundException.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/EndContextFluent.java

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 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/conf/ObjectModel.java
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 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/CacheManager.java
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 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/Closeable.java
 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/QueryFilter.java
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 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/AuditTask.java
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 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/ClassLoaderUtil.java
 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/SequentialAgendaOption.java
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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/MultiValueKnowledgeBuilderOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/KnowledgeBaseFactory.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/model/Deadlines.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/RuleBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/command/World.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/model/InternalI18NText.java
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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/AlphaThresholdOption.java
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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/ChainedProperties.java

- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/DecisionTableInputType.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/KnowledgeAgentProvider.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/help/KnowledgeBuilderHelper.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/logger/KnowledgeRuntimeLoggerFactory.java
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- /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/IndexLeftBetaMemoryOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/ClassLoaderCacheOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/KnowledgeBuilderOptionsConfiguration.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/KnowledgeAgent.java
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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/MaxThreadsOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/event/knowledgeagent/AfterChangeSetProcessedEvent.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/DefaultDialectOption.java
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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/assembler/KieAssemblers.java
- *
- /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/TaskSummaryQueryBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/conf/ForceEagerActivationFilter.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/conf/RuntimeStrategy.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/AuditTaskQueryBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/ResourceChangeSet.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/StringKeyStringValueMapXmlAdapter.java

- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/data/QueryParameters.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/TaskEventDeleteBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/audit/query/AuditDeleteBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/StringKeyStringValueEntry.java
- *
- /kie-internal-6-5-0-final-sources-2-
- jar/org/kie/internal/runtime/manager/audit/query/ProcessInstanceLogDeleteBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/TaskEventQueryBuilder.java
- * /kie-internal-6-5-0-final-sources-2-
- jar/org/kie/internal/runtime/manager/audit/query/NodeInstanceLogDeleteBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/StringKeyObjectValueEntry.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/beliefs/KieBeliefs.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/io/ResourceTypePackage.java
- * /kie-internal-6-5-0-final-sources-2-
- jar/org/kie/internal/runtime/manager/audit/query/RequestInfoQueryBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskContext.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/ResourceChange.java
- * /kie-internal-6-5-0-final-sources-2-
- jar/org/kie/internal/runtime/manager/audit/query/VariableInstanceLogDeleteBuilder.java
- *
- /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/conf/ForceEagerActivationOption.java
- * /kie-internal-6-5-0-final-sources-2-
- jar/org/kie/internal/runtime/manager/audit/query/RequestInfoLogDeleteBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/StringKeyObjectValueMapXmlAdapter.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/ClassLoaderResolver.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/QueryParameterIdentifiers.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/data/QueryData.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/weaver/KieWeavers.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/KieRuntimesImpl.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/weaver/KieWeaverService.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/audit/query/AuditDateDeleteBuilder.java
- *
- /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskModelProvider.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/KieService.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/NoDepsClassLoaderResolver.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/SessionCacheOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/security/KiePolicyHelper.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/beliefs/KieBeliefService.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/audit/query/ErrorInfoDeleteBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskModelFactory.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/InternalRegisterableItemsFactory.java
- * /kie-internal-6-5-0-final-sources-2-
- jar/org/kie/internal/runtime/manager/audit/query/ProcessInstanceLogQueryBuilder.java
- *
- /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/TaskAuditQueryBuilder.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/command/CorrelationKeyCommand.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/ParametrizedQueryBuilder.java
- * /kie-internal-6-5-0-final-sources-2-

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jar/org/kie/internal/runtime/manager/audit/query/NodeInstanceLogQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskPersistenceContext.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/executor/api/ExecutorStoreService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/TaskVariableQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/cdi/Activate.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/ProcessInstanceIdQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/beliefs/Mode.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/assembler/KieAssemblerService.java
*
/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/RuntimeManagerRegistry.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskPersistenceContextManager.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/assembler/KieAssemblersImpl.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/ParametrizedUpdate.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/beliefs/KieBeliefsImpl.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/audit/query/AuditLogQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/audit/query/ErrorInfoQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/StringKeyObjectValueMap.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/cdi/ActivateExtension.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/command/ProcessInstanceIdCommand.java
*
/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/audit/query/ProcessIdQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/ChangeType.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/KieRuntimes.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/KieRuntimeService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskModelProviderService.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/AuditTaskDeleteBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/ParametrizedQuery.java
* /kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/runtime/manager/audit/query/VariableInstanceLogQueryBuilder.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/StringKeyStringValueMap.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/builder/KnowledgeBuilderFluent.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/KnowledgeBaseFluent.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/simulation/InternalSimulation.java

*

/* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/test/ReflectiveMatcher.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/runtime/rule/RuleFluent.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/test/ReflectiveMatcherAssert.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/FluentRoot.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/simulation/SimulationStep.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/RuleEngineOption.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/simulation/Simulation.java

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/VariableContext.java

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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/process/ProcessVariableIndexer.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/RuntimeManagerIdFilter.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskVariable.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskVariableIndexer.java
*
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/VariableIndexer.java
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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/model/NotificationEvent.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskDeadlinesService.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskStatisticsService.java

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- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/conf/ScanResourcesOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/conf/UseKnowledgeBaseClassLoaderOption.java
- * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/conf/ValidationTimeoutOption.java
- *

/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/conf/NewInstanceOption.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/conf/MonitorChangesetEventsOption.java
* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/agent/conf/ScanDirectoriesOption.java
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* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/KnowledgeBuilderResults.java
 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/ResultSeverity.java
 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/KBuilderSeverityOption.java
 * /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/KnowledgeBuilderResult.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.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 <code>NullPointerException</code>. </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
*/

```

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```

* /kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/StatefulKnowledgeSession.java

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1.335 knowledge-api 6.5.0.Final

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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/DeclarativeAgendaOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/LRUnlinkingOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/KnowledgeDescr.java

```

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Found in path(s):

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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/KnowledgeBaseConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/time/Calendar.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/QueryResults.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/KnowledgeBaseOptionsConfiguration.java
*
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/QueryResultsRow.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/AgendaFilter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/WorkItemManager.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Row.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/AfterChangeSetAppliedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/ShareAlphaNodesOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/ProcessStringEscapesOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/Calendars.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/BeforeChangeSetAppliedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/WorkingMemoryEntryPoint.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/LogicalOverrideOption.java
*
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/RuleBuilder.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/PropertiesConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/ChangeSet.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/ActivationGroup.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Agenda.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/Service.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/management/KnowledgeSessionMonitoringMBean.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/ClassLoaderCacheOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/StatelessKnowledgeSessionResults.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/SingleValueKnowledgeBaseOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/KnowledgePackage.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/StatelessRuleSession.java
*

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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/KnowledgeBaseFactory.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/type/FactField.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/LiveQuery.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DebugKnowledgeAgentEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/ClockTypeOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/EvaluatorOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/ClassLoaderUtil.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/RuleFlowGroup.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/NodeContainer.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/KnowledgeBaseEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/KnowledgeBuilderOption.java
*
/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/IndexLeftBetaMemoryOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/task/service/ResponseHandler.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/CommandFactory.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DebugAgendaEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/DefaultPackageNameOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/KnowledgeSessionConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Variable.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/management/DroolsManagementAgentMBean.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/CompositeClassLoader.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/KnowledgeBuilderOptionsConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Operator.java
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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/SingleValueKnowledgeSessionOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/EventProcessingOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/rule/Rule.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/ConsequenceExceptionHandler.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/ResourceConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/help/BatchExecutionHelperProvider.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/help/KnowledgeBuilderHelper.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/SingleValueKnowledgeBuilderOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DefaultKnowledgeAgentEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/AlphaThresholdOption.java
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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/AssertBehaviorOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/DecisionTableConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessEventManager.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/MultiValueKnowledgeSessionOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/ExecutionResults.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/StatelessKnowledgeSession.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/DecisionTableInputType.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/ProcessContext.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/Option.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/AccumulateFunctionOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/KnowledgeSessionOption.java
*

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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/osgi/api/Activator.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/Process.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/MaxThreadsOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/SystemEventListenerService.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/Globals.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/FactHandle.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/management/KBaseConfigurationMonitorMBean.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/rule/Query.java
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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessNodeEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/WorkflowProcess.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/ServiceRegistry.java
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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/ConsequenceExceptionHandlerOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/KnowledgeBaseFactoryService.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/WorkingMemoryEventManager.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/DecisionTableConfigurationImpl.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/WorkItemHandlerOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/Resource.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/logger/KnowledgeRuntimeLoggerFactory.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/CommandFactoryService.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/TypedAccumulateFunction.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/DefaultKnowledgeBaseEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/rule/Global.java
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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/KnowledgeBuilderConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/ProcessRuntime.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/AfterResourceProcessedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/logger/KnowledgeLog.java
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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/ObjectMarshallingStrategyAcceptor.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/KnowledgeBaseEventManager.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/KnowledgeSessionOptionsConfiguration.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/ObjectMarshallingStrategy.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/WorkingMemoryEvent.java
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/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/ResourceCompilationFailedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/KnowledgeBaseOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/DefaultProcessEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/Environment.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/persistence/jpa/JPAKnowledgeService.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/type/FactType.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/MultiValueKnowledgeBuilderOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/EvaluatorDefinition.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/io/ResourceChangeListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/KnowledgeRuntime.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/ClassObjectFilter.java

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*
 /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/BeforeResourceProcessedEvent.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/BeliefSystemTypeOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Activation.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/ViewChangedEventListener.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/KnowledgeRuntimeEventManager.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/AgendaGroup.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/KnowledgeRuntimeEvent.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/ProcessInstance.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/SequentialOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/MultiValueKnowledgeBaseOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/KnowledgeBaseUpdatedEvent.java
 *
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 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/KnowledgeDefinition.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/WorkItem.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourceChangeNotifier.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/MBeansOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/Node.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/KnowledgeBuilderFactoryService.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/KnowledgeContext.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/logger/KnowledgeRuntimeLogger.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/JaxbConfiguration.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/RemoveIdentitiesOption.java
 *
 /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/ExitPoint.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/ObjectFilter.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DefaultWorkingMemoryEventListener.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/KnowledgeBuilderError.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/AccumulateFunction.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/JaxbConfigurationImpl.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/StatefulRuleSession.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/logger/KnowledgeRuntimeLoggerFactoryService.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/MarshallerProvider.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/IndexRightBetaMemoryOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/ProcessBuilder.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/persistence/jpa/KnowledgeStoreService.java
 *
 /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/EnvironmentName.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/MultithreadEvaluationOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/NodeInstanceContainer.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/DumpDirOption.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/Marshaller.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/Setter.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourceChangeScannerConfiguration.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/KnowledgeBuilderErrors.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DebugWorkingMemoryEventListener.java
 * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/ChainedProperties.java

- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/PropagationContext.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/StatelessProcessSession.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/CommandExecutor.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/SystemEventListenerFactory.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/Command.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/Channel.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/DefaultAgendaEventListener.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/ActivationCancelledCause.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/help/DroolsJaxbHelperProvider.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/MarshallerFactory.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/OSGiLocator.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/EventListener.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/QueryListenerOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/BeforeChangeSetProcessedEvent.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/SequentialAgendaOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/BatchRequestMessage.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/KnowledgeBase.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/base/DefaultConsequenceExceptionHandler.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/MarshallingConfiguration.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/NodeInstance.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/time/SessionClock.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/RuleContext.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/StatefulProcessSession.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourceChangeMonitor.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/management/ObjectTypeNodeMonitorMBean.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/WorkItemHandler.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourceChangeScanner.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/DefaultDialectOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/Connection.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/SystemEventListener.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/ServiceRegistryImpl.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/help/BatchExecutionHelper.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/CompositeKeyDepthOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/ConsequenceException.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/ResourceType.java
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- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/KeepReferenceOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/WorkflowProcessInstance.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/AfterChangeSetProcessedEvent.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourceFactory.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/WorkingMemory.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourceFactoryService.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/AttachedViewChangedEventListener.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/MaintainTMSOption.java

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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/AgendaGroupPoppedEvent.java
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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessNodeTriggeredEvent.java
*
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgePackageAddedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessVariableChangedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessNodeLeftEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/AfterActivationFiredEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/WorkingMemoryEventListener.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseUnlockedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/AgendaGroupPushedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/AfterProcessAddedEvent.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseLockedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/AfterKnowledgeBaseLockedEvent.java
*
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/RuleFlowGroupDeactivatedEvent.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/BeforeKnowledgePackageRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/BeforeRuleAddedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/RuleFlowGroupActivatedEvent.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/BeforeKnowledgePackageAddedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/ObjectInsertedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/ActivationEvent.java
```

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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/AfterRuleRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/AgendaGroupEvent.java
*
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/BeforeProcessRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/AfterRuleAddedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/BeforeActivationFiredEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/ActivationCreatedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/AfterFunctionRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessStartedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/BeforeProcessAddedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/BeforeRuleRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/ObjectRetractedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/RuleFlowGroupEvent.java
*
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/KnowledgeBaseEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/BeforeFunctionRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgebase/AfterProcessRemovedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/AgendaEventListener.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessEventListener.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgeBaseUnlockedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessCompletedEvent.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/rule/ObjectUpdatedEvent.java
* /knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgePackageRemovedEvent.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 <b>must</b> 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>`

* `<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.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>

* </p>

* @see `org.drools.core.runtime.Globals`

* /

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* `/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/StatefulKnowledgeSession.java`

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- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/GlobalAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemManagerKieAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeRuntimeAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ChannelAdapter.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AnnotationAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/QueryResultsAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/GlobalsAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/RowAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkflowProcessInstanceAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/PropertySpecificOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ProcessInstanceAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/DecisionTableConfigurationAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/NodeInstanceContainerAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AgendaAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemHandlerAdapter.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/PermGenThresholdOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/KnowledgeBuilderImpl.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/concurrent/ExecutorProviderFactory.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/FactTypeAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/NodeInstanceAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ConnectionAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/ResourceFactoryServiceImpl.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/LanguageLevelOption.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/KnowledgeRuntimeLoggerFactoryServiceImpl.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeRuntimeLoggerAdapter.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/LiveQueryAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/QueryAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AccumulateFunctionAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkingMemoryEventListenerAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ProcessAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/CompositeKnowledgeBuilder.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/EnvironmentAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkingMemoryEntryPointAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemManagerAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/RuleAdapter.java
- *
- /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBuilderResultAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeSessionConfigurationAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/marshalling/ObjectMarshallingStrategyStore.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/StatelessKnowledgeSessionAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBuilderErrorAdapter.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/time/SessionPseudoClock.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AgendaGroupAdapter.java

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* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ActivationAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/concurrent/ExecutorProvider.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/util/FastClassLoader.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/StatefulKnowledgeSessionAdapter.java
*
/knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ActivationGroupAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AgendaFilterAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgePackageAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBaseConfigurationAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/CalendarAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/NodeAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ProcessEventListenerAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/KBaseUnit.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemKieAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/CompositeKnowledgeBuilderAdapter.java
*
/knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBaseAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AgendaEventListenerAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/RuleFlowGroupAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBuilderResultsAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/impl/CommandFactoryServiceImpl.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/CalendarsAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/IndexPrecedenceOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/ResourceAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/KnowledgeBaseFactoryServiceImpl.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/NodeContainerAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/FactHandleAdapter.java
*
/knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemHandlerKieAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/command/BatchExecutionCommand.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBaseEventListenerAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/TimerJobFactoryOption.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBuilderConfigurationAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/FactFieldAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/KnowledgeBuilderFactoryServiceImpl.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/io/ResourcedObject.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/AdapterUtil.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeBuilderErrorsAdapter.java
*
/knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/QueryResultsRowAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/JaxbConfigurationAdapter.java
* /knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/KnowledgeStoreServiceImpl.java
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- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/KnowledgeBuilderResults.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/ResultSeverity.java

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- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/ChangeSetProcessingEvent.java
- * /knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/KnowledgeAgentEventListener.java

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- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/Global.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/EvaluatorDefinition.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/EventProcessingOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/marshalling/MarshallingConfiguration.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Operator.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/KieBaseOptionsConfiguration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/EventListener.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Task.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/BatchRequestMessage.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/KieBaseConfigurationMonitorMBean.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/WorkflowProcessInstance.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/process/WorkflowProcess.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/RuleRuntime.java

- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/MatchCancelledCause.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/LiveQuery.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/Calendars.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/I18NText.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/logger/KieRuntimeLogger.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/process/NodeContainer.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/ObjectTypeNodeMonitorMBean.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/KieBaseConfiguration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/process/Node.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/QueryResultsRow.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/KieSessionConfiguration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/MultiValueKieSessionOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/KieSessionOptionsConfiguration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/PeopleAssignments.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/ProcessContext.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/AgendaGroup.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/KieManagementAgentMBean.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/StatelessRuleSession.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/KieBaseOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/marshalling/Marshaller.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/EntryPoint.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/EnvironmentName.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/RuleContext.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/DebugAgendaEventListener.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/WorkItemHandler.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/FactType.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/KieRuntimeEvent.java
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- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/marshalling/KieMarshallers.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/EqualityBehaviorOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/Rule.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/io/ResourceConfiguration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessEventManager.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/AgendaFilter.java
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- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/ExecutionResults.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/Option.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/command/Setter.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/KieBaseEventListener.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/MBeansOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/Query.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/ActivationGroup.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/ConsequenceExceptionHandler.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Comment.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/KieSessionOption.java

- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/StatefulProcessSession.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/KieDefinition.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/AttachedViewChangedEventListener.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/osgi/Activator.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/WorkItemHandlerOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/Globals.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/KieRuntime.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/ViewChangedEventListener.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/io/KieResources.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/ClockTypeOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/QueryListenerOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/DefaultAgendaEventListener.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/marshalling/ObjectMarshallingStrategyAcceptor.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/User.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/DefaultKieBaseEventListener.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/marshalling/ObjectMarshallingStrategy.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/PropertiesConfiguration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Status.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/StatefulRuleSession.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/FactHandle.java
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- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/command/Command.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/KieBaseEventManager.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Agenda.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Attachment.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/StatelessProcessSession.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/RuleFlowGroup.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/logger/KieLoggers.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/OrganizationalEntity.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/BeliefSystemTypeOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/RemoveIdentitiesOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/UserGroupCallback.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/KieContext.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/GenericKieSessionMonitoringMXBean.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/NodeInstanceContainer.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/WorkItemManager.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/SingleValueKieSessionOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/time/SessionClock.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/Environment.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/NodeInstance.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/ClassObjectFilter.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/Channel.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/MultiValueKieBaseOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/process/Process.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/Service.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/io/Resource.java

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/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/QueryResults.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/ObjectFilter.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/AccumulateFunction.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/ProcessRuntime.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/command/KieCommands.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/FactField.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/SingleValueKieBaseOption.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/ProcessInstance.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/DefaultRuleRuntimeEventListener.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/persistence/jpa/KieStoreServices.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/DefaultProcessEventListener.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/KeepReferenceOption.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/TaskData.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/time/Calendar.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessNodeEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/DebugRuleRuntimeEventListener.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/KieSessionMonitoringMXBean.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/WorkItem.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/CommandExecutor.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/io/ResourceType.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Row.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Variable.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/PropagationContext.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/process/Connection.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/KiePackage.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Content.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/StatelessKieSessionMonitoringMXBean.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/ConsequenceException.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/model/Group.java
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 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/conf/DeclarativeAgendaOption.java

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 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/ActivationListener.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/management/GAV.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/Direct.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/RuleRuntimeEventListener.java
 *
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ExecutorStoreService.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/TimedRuleExectionOption.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/PropertyChangeSupport.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeEnvironmentBuilderFactory.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/remote/Remotable.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/All.java

* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/Watch.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/rule/Propagation.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/RuleRuntimeEventManager.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/FileLoggerModel.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/RuleRuntimeEvent.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeEnvironmentBuilder.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.

*

*

* Simple example showing a KieSession executing rules for a given collection of java objects.

*

*

* KieServices kieServices = KieServices.Factory.get();

* KieContainer kContainer = kieServices.getKieClasspathContainer();

* KieSession kSession = kContainer.newKieSession();

*

* for(Object fact : facts) {

* kSession.insert(fact);

* }

* kSession.fireAllRules();

* kSession.dispose();

*

*

*

* Simple example showing a stateful session executing processes.

*

*

* KieSession kSession = kbase.newKieSession();

* kSession.startProcess("com.sample.processid");

* kSession.signalEvent("SomeEvent", null);

* kSession.startProcess("com.sample.processid");

* kSession.dispose();

*

*

*

* 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.

*

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`.

*

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>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>
*
* @see Globals
*/

```

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* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/KieSession.java

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* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeKieBaseUnlockedEvent.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessEventListener.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/MatchEvent.java
 * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterFunctionRemovedEvent.java
 *


```

/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterKieBaseLockedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/AgendaGroupPushedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterKiePackageAddedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeProcessAddedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessNodeTriggeredEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/MatchCancelledEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterProcessAddedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeProcessRemovedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/AgendaEventListener.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/BeforeMatchFiredEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterRuleRemovedEvent.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/RuleFlowGroupEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/KieBaseEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessNodeLeftEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/AgendaGroupEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/MatchCreatedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeKiePackageAddedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/ObjectUpdatedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterKiePackageRemovedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterRuleAddedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/RuleFlowGroupDeactivatedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/ObjectDeletedEvent.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/RuleFlowGroupActivatedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterProcessRemovedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessCompletedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeFunctionRemovedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeKiePackageRemovedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Evaluator.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/AfterKieBaseUnlockedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeRuleRemovedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeKieBaseLockedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiebase/BeforeRuleAddedEvent.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/AgendaGroupPoppedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessStartedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/AfterMatchFiredEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessVariableChangedEvent.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/ObjectInsertedEvent.java

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- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Position.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/KieContainer.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeEngine.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ExecutorQueryService.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/ListenerModel.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/STATUS.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RegisterableItemsFactory.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/rule/Match.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ExecutorAdminService.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/KieModuleModel.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/CommandContext.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/KieBase.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/Executor.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/Message.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Key.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/audit/ProcessInstanceLog.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/TaskService.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Timestamp.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/Context.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ExecutorService.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeManager.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/cdi/KContainer.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/audit/AuditService.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/TaskEvent.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/process/DataTransformer.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Duration.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Expires.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/TypeSafe.java
- *
- /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/conf/TimerJobFactoryOption.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/task/TaskContext.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Modifies.java
- * /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieScanner.java

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* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/Include.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/ReleaseId.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieRepository.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Role.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/cdi/KSession.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/PropertyReactive.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/CommandCallback.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/Results.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ErrorInfo.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/audit/NodeInstanceLog.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/marshalling/ObjectMarshallingStrategyStore.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/KieServices.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/audit/VariableInstanceLog.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/Command.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieBuilder.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/StatelessKieSession.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/cdi/KReleaseId.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/RequestInfo.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/cdi/KBase.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeManagerFactory.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/runtime/manager/RuntimeEnvironment.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/command/BatchExecutionCommand.java
*
/kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/ExecutionResults.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/ClassReactive.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/WorkItemHandlerModel.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/KieBaseModel.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieFileSystem.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/KieModule.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/concurrent/KieExecutors.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/KieSessionModel.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/QualifierModel.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/Reoccurring.java
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* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Label.java
* /kie-api-6-5-0-final-sources-2-jar/org/kie/api/definition/type/Description.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):

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/rule1.drl

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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/DescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/CEDescrBuilderImpl.java

*

/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/FieldDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsMismatchedTokenException.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/AnnotationDescr.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/AnnotationDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/SourceDescrBuilderImpl.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ConstraintConnectiveDescr.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsParserExceptionFactory.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/FunctionDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsMissingTokenException.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/AccumulateDescrBuilderImpl.java

*

/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DrlExprParser.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/RuleDescrBuilderImpl.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/ImportDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/CollectDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/GlobalDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/DeclareDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/CollectDescrBuilderImpl.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/AttributeDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/AccumulateImportDescrBuilder.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/QueryDescrBuilder.java

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*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/QueryDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/BehaviorDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/TypeDeclarationDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/SourceDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/AnnotatedDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/ForallDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/AtomicExprDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsSoftKeywords.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/WindowDeclarationDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/ForallDescrBuilder.java
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/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/BehaviorDescrBuilder.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/OperatorDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/RuleDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/EntryPointDeclarationDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ConnectiveType.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsParaphraseTypes.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/DescrFactory.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/AccumulateDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsSentenceType.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsSentence.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/BaseDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/PatternDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsMismatchedSetException.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedScoreCardFactory.java
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/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieRepositoryImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ClassHierarchyManager.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/FieldDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedDecisionTableFactory.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ResourceConversionResult.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedScoreCardProvider.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedDecisionTableProvider.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationConfigurator.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ClassDefinitionFactory.java
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- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/RestrictionConnectiveDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FieldTemplateDescr.java
- *
- /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ConnectiveDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsToken.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/osgi/Activator.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/MVELExprDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieModuleCacheHelper.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/DeclarativeInvokerDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ProcessBuilderFactoryService.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/AccessorDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FactTemplateDescr.java

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- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLMapping.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FunctionImportDescr.java
- *
- /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLMappingParseException.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/CollectBuilder.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/PackageBuildContext.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELEvalBuilder.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/AccumulateImportDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLMappingEntry.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLMappingFile.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/GroupElementBuilder.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaRuleClassBuilder.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ImportDescr.java

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*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/RuleConditionBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DefaultDSLMapping.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/AntlrDSLMappingEntry.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/JavaAccumulateBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/PatternBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/ForallBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/GlobalDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ForallDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELFromBuilder.java
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jar/org/drools/compiler/rule/builder/dialect/asm/ASMReturnValueStubBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/Resource.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/memory/MemoryPath.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/PackageBuilderResults.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/xml/PomModel.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/AbstractJavaBlockDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/FileKieModule.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ReturnValueDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/errors/RuleErrorHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieModuleKieProject.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/JavaRuleBuilderHelper.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/MemoryKieModule.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/asm/ASMConsequenceBuilder.java
*

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/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLMapWalker.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DroolsWarning.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/asm/AbstractASMReturnValueBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/GlobalDescrBuilderImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/RuleBuildError.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieContainerImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ConditionalBranchDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/KieSessionModelImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/AbstractJavaContainerBlockDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/ConditionalBranchDescrBuilderImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/DialectError.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/memory/MemoryFileSystem.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/ReleaseIdImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaStatementBlockDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/Path.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/InternalKieScanner.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DecisionTableFactory.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DialectCompiletimeRegistry.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/ReturnValueBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/Dialect.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaDialectConfiguration.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaBlockDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieProject.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/XmlPackageReader.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/AccumulateBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/InternalKieModule.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DRLParser.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ProjectJavaCompiler.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/KieModuleModelImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/KnowledgeBuilderFactoryServiceImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/errors/ErrorHandler.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DRLLexer.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELEnabledBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/errors/RuleInvokerErrorHandler.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/IncrementalResultsImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/AbstractDRLParser.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationUtils.java

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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/InternalKieServices.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/util/KieJarChangeSet.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELConsequenceBuilder.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/asm/ASMPredicateStubBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/DeclareDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELDialect.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/QueryBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/ConstraintBuilderFactory.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaIfBlockDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/MVELConstraintBuilder.java
*
/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaRootBlockDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieMetaInfoBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/ExpressionRewriter.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaDialect.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDefinition.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLMapLexer.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/api/impl/EntryPointDeclarationDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/DialectSession.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieBuilderSetImpl.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELObjectExpressionBuilder.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/xml/PomModelGenerator.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ScoreCardFactory.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/asm/AbstractASMConsequenceBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ProcessDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/CompositePackageDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ActionDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/errors/SrcErrorHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DRLFactory.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/ClasspathKieProject.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/DroolsCompilerComponentFactory.java
*
/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaModifyBlockDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ProcessBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DSLTokenizedMappingFile.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieModuleCache.java
* /drools-compiler-6-5-0-final-sources-1-

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jar/org/drools/compiler/commons/jci/compiler/NativeCompilationProblem.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaCatchBlockDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/reteoo/compiled/ObjectTypeNodeCompiler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/event/KieModuleDiscovered.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/NamedConsequenceDescr.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/asm/InvokerGenerator.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/util/AnnotationFactory.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaThrowBlockDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/DefaultConstraintBuilderFactory.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/ConditionalBranchDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/QualifierModelImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/PatternContainerDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/ListenerModelImpl.java
* /drools-compiler-6-5-0-final-sources-1-
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*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationNameResolver.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/NativeJavaCompiler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DRLExpressions.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/testframework/RuleCoverageListener.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/Folder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/SalienceBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/BPMN2ProcessFactory.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ProcessBuilderFactory.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/ParameterSupportBuilder.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/PredicateBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/RulesSemanticModule.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaExitPointsDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/QueryElementBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/errors/FunctionErrorHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/NamedConsequenceDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/KnowledgeTypeManager.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/asm/InvokerContext.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DecisionTableProvider.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ProcessLoadError.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieFileSystemImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieServicesImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/EvalDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/FileSystem.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaElseBlockDescr.java

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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ResourceTypeDeclarationWarning.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/xml/MinimalPomParser.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/NamedConsequenceDescrBuilderImpl.java
 *
 /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/RuleClassBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaForBlockDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaFinalBlockDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/memory/MemoryFolder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/AttributeSupportBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/testframework/TestingEventListener.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/File.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/asm/ASMEvalStubBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/ConditionalBranchBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/io/memory/MemoryFile.java
 *
 /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaInterfacePointsDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/InternalKieContainer.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/FromBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/DeclaredClassBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/WorkItemHandlerModelImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/AnnotationDeclarationError.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/NamedConsequenceBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/asm/ASMConsequenceStubBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELDialectConfiguration.java
 *
 /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/cdi/KieCDIExtension.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/errors/SrcError.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DialectConfiguration.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/BPMN2ProcessProvider.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/AbstractDRLLexer.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/PackageBuilderErrors.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/FunctionDescrBuilderImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/BusinessRuleProvider.java
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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/asm/AbstractASMEvalBuilder.java
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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/FileLoggerModelImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DroolsWarningWrapper.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/XpathAnalysis.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/KieBaseModelImpl.java

* /drools-compiler-6-5-0-final-sources-1-
 jar/org/drools/compiler/rule/builder/dialect/mvel/MVELSaliencyBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-
 jar/org/drools/compiler/lang/api/impl/AccumulateImportDescrBuilderImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/ResultsImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/ImportDescrBuilderImpl.java
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 /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/readers/DiskResourceReader.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaDialectError.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/util/CDIHelper.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ScoreCardProvider.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/MessageImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/PackageRegistry.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/WindowReferenceBuilder.java
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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ResourceBuilder.java
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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/AbstractDSLMappingEntry.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/RuleBuildWarning.java
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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DRL5Lexer.java
 * /drools-compiler-6-5-0-final-sources-1-
 jar/org/drools/compiler/kie/builder/impl/event/AbstractKieServicesEventListener.java
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 /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationFactory.java
 * /drools-compiler-6-5-0-final-sources-1-
 jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaContainerBlockDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/EntryPointBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/ZipKieModule.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaFunctionBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/AnnotationDescrBuilderImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/PackageDescrBuilder.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/AttributeDescrBuilderImpl.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/PackageDescrDumper.java
 *
 /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/AbstractKieModule.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ExpressionDescr.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/DialectUtil.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaDialectSession.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/AnalysisResult.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/BoundIdentifiers.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsUnexpectedAnnotationException.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/ConsequenceBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaWhileBlockDescr.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/QualifiedIdentifierRestrictionDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FieldConstraintDescr.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/PredicateDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/RestrictionDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/BindingDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/LiteralRestrictionDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/ParseException.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/OrDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/CollectDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ExprConstraintDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/QueryDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/VariableRestrictionDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FunctionDescr.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/NotDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/ExpanderException.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/Restriction.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ReturnValueRestrictionDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/MappingError.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/GeneralParseException.java
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jar/org/drools/compiler/lang/api/impl/WindowDeclarationDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/EnumLiteralDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/api/AbstractClassTypeDeclarationBuilder.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/EnumLiteralDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/EnumDeclarationDescrBuilder.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/api/impl/EnumDeclarationDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/AbstractClassTypeDeclarationDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/BaseKnowledgeBuilderResultImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/QualifiedName.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/api/impl/TypeDeclarationDescrBuilderImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/EnumDeclarationDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/EnumLiteralDescr.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/ParserHelper.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DRL5Parser.java

*

/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DrlDumper.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsTree.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/MVELDumper.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DRL6StrictParser.java

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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/PatternSourceDescr.java

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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/xml/DependencyFilter.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/RuleTemplateModelImpl.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/Annotated.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/RuleHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DefaultExpanderResolver.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/RuleBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ExistsDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/EvalDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ForallHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/AccumulateHelperHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/PatternHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DescrBuildError.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/JavaExprAnalyzer.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ExpressionHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/BaseDescr.java
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/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/PredicateHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DefaultExpander.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/NotHandler.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ExistsHandler.java
* /drools-compiler-6-5-0-final-sources-1-
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/AndHandler.java
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- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DroolsParserException.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DescrBuildWarning.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/AndDescr.java
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- jar/org/drools/compiler/rule/builder/dialect/java/KnowledgeHelperFixer.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/AnnotatedBaseDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/AccumulateHandler.java
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- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/TypeDeclarationError.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/FunctionHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DroolsError.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/EvalHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/QueryHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/TypeDeclarationWarning.java
- *
- /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/CollectHandler.java
- * /drools-compiler-6-5-0-final-sources-1-
- jar/org/drools/compiler/runtime/pipeline/impl/DroolsJaxbHelperProviderImpl.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GlobalError.java
- * /drools-compiler-6-5-0-final-sources-1-
- jar/org/drools/compiler/builder/impl/KnowledgeBuilderConfigurationImpl.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/PackageDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ActionError.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/FieldBindingHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/SerializableDroolsError.java
- * /drools-compiler-6-5-0-final-sources-1-
- jar/org/drools/compiler/compiler/xml/rules/VariableRestrictionsHandler.java
- *
- /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/ExprConstraintHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/PackageStore.java
- * /drools-compiler-6-5-0-final-sources-1-
- jar/org/drools/compiler/compiler/xml/rules/QualifiedIdentifierRestrictionHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/FactTemplateError.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/LiteralRestrictionHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/FromHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/AccumulateDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/PackageHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/ForFunctionDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/FieldTemplateError.java
- *
- /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/LiteralDescr.java
- * /drools-compiler-6-5-0-final-sources-1-
- jar/org/drools/compiler/compiler/xml/rules/RestrictionConnectiveHandler.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELExprAnalyzer.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/RuleDescr.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/ExpanderResolver.java
- * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/ConditionalElementDescr.java

```
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/FunctionBuilder.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/OrHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ParserError.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/FunctionError.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/Expander.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DrlParser.java
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```
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/EclipseJavaCompiler.java
*
/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/JavaCompilerSettings.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/JavaCompiler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/CompilationResult.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/JavaCompilerFactory.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/problems/CompilationProblem.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JaninoJavaCompilerSettings.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/JaninoJavaCompiler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/compiler/AbstractJavaCompiler.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JaninoCompilationProblem.java
*
/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/EclipseCompilationProblem.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/problems/CompilationProblemHandler.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/readers/ResourceReader.java
* /drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/EclipseJavaCompilerSettings.java
```


* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/stores/ResourceStore.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/readers/MemoryResourceReader.java

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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/PMMLCompiler.java

* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/PMMLCompilerFactory.java

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jar/org/drools/compiler/rule/builder/dialect/mvel/MVELReturnValueBuilder.java

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 *
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 */

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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELAnalysisResult.java
 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaLocalDeclarationDescr.java
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 * /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/package-info.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DuplicateFunction.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DuplicateProcess.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DuplicateRule.java
*
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/DroolsErrorWrapper.java
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* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/EntryPointDeclarationDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/TypeFieldDescr.java
* /drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dscr/TypeDeclarationDescr.java

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1.338 icu4j 56.1

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* CollationFastLatin.java, ported from collationfastlatin.h/.cpp
*
* C++ version created on: 2013aug09
* created by: Markus W. Scherer
*/
```

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*****
* Author: Alan Liu
* Created: October 2 2003
* Since: ICU 2.8
*****
*/
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```
* /icu4j-56-1-sources-jar/com/ibm/icu/util/Holiday.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/LowercaseTransliterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarAstronomer.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UppercaseTransliterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarCache.java
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* /icu4j-56-1-sources-jar/com/ibm/icu/util/CaseInsensitiveString.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICURWLock.java
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* FCDIterCollationIterator.java, ported from uitercollationiterator.h/.cpp
*
* C++ version created on: 2012sep23 (from utf16collationiterator.h)
* created by: Markus W. Scherer
*/
```

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```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/FCDIterCollationIterator.java
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*****
* created on: 2011jan07
* created by: Markus W. Scherer
* ported from ICU4C ucharstriebuilder.cpp
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrieBuilder.java

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* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/StringTokenIterator.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarUtil.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2Writable.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICURegionDataTables.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICULangDataTables.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleSyntaxException.java
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* CollationDataBuilder.java, ported from collationdatabuilder.h.cpp
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* C++ version created on: 2012apr01
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```

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* /icu4j-56-1-sources-jar/com/ibm/icu/util/CompactByteArray.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/CompactCharArray.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/PersianCalendar.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/StringCharacterIterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/EasterHoliday.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetIterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/RemoveTransliterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/ComposedCharIter.java
*

/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeFilter.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CanonicalIterator.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/InternalLocaleBuilder.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/BaseLocale.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleObjectCache.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/AsciiUtil.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/Extension.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleExtensions.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/UFieldPosition.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/QuantityFormatter.java

* /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) 2003-2011, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/NumberFormatServiceShim.java

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

/*

* Copyright (C) 2008-2015, Google, International Business Machines Corporation

* and others. All Rights Reserved.

*/

Found in path(s):

* /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) 2012-2015, International Business Machines

* Corporation and others. All Rights Reserved.

* CollationKeys.java, ported from collationkeys.h/.cpp

*

* C++ version created on: 2012sep02

* created by: Markus W. Scherer

*/

Found in path(s):

* /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) 2010-2014, Google, Inc.; International Business Machines *

* Corporation and others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/LocalePriorityList.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):

* /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) 2008-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/PluralRulesLoader.java

* /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) 1996-2011, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/PropsVectors.java

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

// All Rights Reserved.

Found in path(s):

* /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) 2007-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicPeriodFormatterService.java

* /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) 1996-2007, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
```

```

*
*****

*/

Found in path(s):
* /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) 2010-2014, Google, International Business Machines Corporation *
* and others. All Rights Reserved.
*****

*/

Found in path(s):
* /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) 2012-2014, Google, International Business Machines Corporation and
* others. All Rights Reserved.
*****

*/

Found in path(s):
* /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) 1996-2010, International Business Machines Corporation and
* others. All Rights Reserved.
*****

*/

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/util/ByteArrayWrapper.java
* /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) 2000-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****

*/

```

Found in path(s):

* /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) 2006-2009, Google, International Business Machines Corporation *

* and others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternTokenizer.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):

* /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) 2009-2010, Google, International Business Machines Corporation *

* and others. All Rights Reserved. *

*/

Found in path(s):

* /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) 2009-2014, International Business Machines

* Corporation and others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Norm2AllModes.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. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/BurmeseBreakEngine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/ThaiBreakEngine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryBreakEngine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/SimplePatternFormatter.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/LanguageBreakEngine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/BytesDictionaryMatcher.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/LaoBreakEngine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/KhmerBreakEngine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnhandledBreakEngine.java

*

/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) 2012, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryMatcher.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.

* CollationRootElements.java, ported from collationrootelements.h/.cpp

*

* C++ version created on: 2013mar01

* created by: Markus W. Scherer

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRootElements.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):

* /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) 2003-2010, International Business Machines Corporation and

* others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleParseTable.java

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

/*

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/Calendar.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormat.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. *

*/

Found in path(s):

* /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) 1996-2004, International Business Machines Corporation and

* others. All Rights Reserved.

*

*/

Found in path(s):

* /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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* others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/ICUException.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/SimpleFilteredSentenceBreakIterator.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/ICUUncheckedIOException.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/ICUCloneNotSupportedException.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/TZDBTimeZoneNames.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetSpanner.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.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResourceBundleReader.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceBundle.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResourceBundleImpl.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacterNameIterator.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):
* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBBSymbolTable.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):
* /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) 2010-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UTS46.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):
* /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) 2010, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 2002, International Business Machines Corporation
* and others. All Rights Reserved.
*****
* Date      Name      Description
* 01/14/2002 aliu      Creation.
*****
*/
```

Found in path(s):

* /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) 1999-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*
*****
*/
```

Found in path(s):

* /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) 2008-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
/**
* 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
- *
- *
- * only keeps the field pattern letter and ignores all other parts
- * in a pattern, such as space, punctuations, and string literals.
- *
- * hides the order of fields.
- *
- * 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.
- *
- *
- * <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
- *
- * The largest different calendar fields between 2 calendars is the
- * first different calendar field in above order.
- *

- * 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 "yMMMd",
- * 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".
- *
- * 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):

- * /icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalInfo.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):

- * /icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/IterableComparator.java

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/*

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UnicodeRegex.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationTailoring.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):

* /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) 2011-2015, International Business Machines Corporation and

* others. All Rights Reserved.

*/

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/TimeZoneNames.java
* /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) 2004-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Author: Alan Liu
* Created: April 6, 2004
* Since: ICU 3.0
*****
*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/MessageFormat.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):

```
* /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) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
/**
* <code>Transliterator</code> 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
* <em>translate</em> 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, <code>Transliterator</code> 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
* <code>Transliterator</code>.
*
*/
```

* <p>

* Translitterators are stateless

*

* <p>

* <code>Transliterator</code> objects are stateless; they retain no information between calls to

* <code>transliterate()</code>. As a result, threads may share translitterators 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 <code>Transliterator</code> 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 <code>input</code> and a transliterator

<code>t</code>,

* the call

*

* <blockquote><code>String result = t.transliterate(input);

* </code></blockquote>

*

* will transliterate it and return the result. Other methods allow the client to specify a substring to be

* transliterated and to use {Replaceable} objects instead of strings, in order to preserve out-of-band

* information (such as text styles).

*

* <p>

* Keyboard transliteration

*

* <p>

* Somewhat more involved is keyboard, 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>RuleBasedTransliterator</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 <code>cursor</code> can also be explicitly set by rules in a
* <code>RuleBasedTransliterator</code>. Any characters
before the <code>cursor</code> index are frozen; future keyboard
* transliteration calls within this input sequence will not change them. New text is inserted at the
<code>limit</code>
* 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 <code>finishTransliteration()</code> 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"<br>`

* `"B" x <b>BA</b> -> "A"</blockquote>`

*

* where 'x' represents transliteration. However,

*

* `<blockquote>"ABCD" x <b>AB</b>`

`-> "BBCD"<br>`

* `"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 `AB``.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 *ID*. IDs follow the format

* *source-destination*, where *source* describes the entity being replaced, and

destination

* describes the entity replacing *source*. 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 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 #getDisplayName}.

* <p>

* Factory methods and registration

* <p>

* In general, client code should use the factory method `getInstance()` to obtain an instance of a transliterator given its ID. Valid IDs may be enumerated using `getAvailableIDs()`. Since transliterators are stateless, multiple calls to `getInstance()` 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 `registerInstance()` at run time. To register a transliterator subclass without instantiating it (until it is needed), users may call `registerClass()`.

* <p>

* Composed transliterators

* <p>

* In addition to built-in system transliterators like "Latin-Greek", there are also built-in *composed* 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 2ⁿ vs. 2ⁿ² - 2ⁿ, so as *n* 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):

```
* /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) 2005-2013, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*
*/

```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_sbcs.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):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleIDParser.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/ReplaceableString.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):

* /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) 2009, International Business Machines Corporation and  *
* others. All Rights Reserved.                                           *
*****
*/

```

Found in path(s):

* /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) 2009-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Normalizer2Impl.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer2.java
```

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

```
/*
*****
* Copyright (C) 2001-2004, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/StringMatcher.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeMatcher.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):

```
* /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) 1996-2011, International Business Machines Corporation and
* others. All Rights Reserved.
*/
```

Found in path(s):

```
* /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):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/BuddhistCalendar.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/TimeUnitAmount.java

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/*

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/SourceTargetUtility.java

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/*

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*/

Found in path(s):

* /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) 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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/RuleCharacterIterator.java

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*/

Found in path(s):

* /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) 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):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/Measure.java

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* /icu4j-56-1-sources-jar/com/ibm/icu/impl/URLHandler.java

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/*

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/StringRange.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/UnicodeLocaleExtension.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScanner.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyPluralInfo.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScannerProvider.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUCurrencyMetaInfo.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):

* /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) 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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRuleParser.java

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/*

* 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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyFormat.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RelativeDateTimeFormatter.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):

* /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) 2009-2011, International Business Machines Corporation and *

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*/

Found in path(s):

* /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.

```
/*
*****
* Copyright (C) 2013-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* TailoredSet.java, ported from collationsets.h/.cpp
*
* C++ version created on: 2013feb09
* created by: Markus W. Scherer
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/TailoredSet.java

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```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/text/RbnfScannerProviderImpl.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationBuilder.java

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```
/*
*****
*
* Copyright (C) 1996-2015, International Business Machines
* Corporation and others. All Rights Reserved.
```

```
*
*****
*
* CollationLoader.java, ported from ucol_res.cpp
*
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationLoader.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.
*****
* Author: Alan Liu
* Created: September 4 2003
* Since: ICU 2.8
*****
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ZoneMeta.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):
* /icu4j-56-1-sources-jar/com/ibm/icu/math/MathContext.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.
*****
* 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):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationCompare.java
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 */
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalFormat.java

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*****
 *
 */
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_mbcs.java

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```
/**
*****
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 * others. All Rights Reserved.
*****
 */
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/ResourceReader.java

* /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) 1996-2005, International Business Machines Corporation and *
 * others. All Rights Reserved. *
*****
 */
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_fr.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_it.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_da.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_es.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_el.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/SymbolTable.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_iw.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle.java

*

/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de.java

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/*

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* Corporation and others. All Rights Reserved.

* Author: Alan Liu

* Created: March 16 2004

* Since: ICU 3.0

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/TokenIterator.java

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/*

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* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/DateTimeRule.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZoneTransition.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/AnnualTimeZoneRule.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZoneRule.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/TimeArrayTimeZoneRule.java

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* /icu4j-56-1-sources-jar/com/ibm/icu/text/ChineseDateFormatSymbols.java

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/*

```
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*****
*/
```

Found in path(s):
* /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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*/
```

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```
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISetBuilder.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):
* /icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrie.java
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```
/*
*****
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```

* others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUCurrencyDisplayInfoProvider.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2_32.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResourceTableAccess.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2_16.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):

* /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) 1996-2011, International Business Machines Corporation and

* others. All Rights Reserved.

*

*/

Found in path(s):

* /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) 2002-2010, International Business Machines

* Corporation and others. All Rights Reserved.

*/

Found in path(s):

* /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) 2012-2014, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/DangiCalendar.java

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

/*

* Copyright (C) 2005-2010, International Business Machines

* Corporation and others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/STZInfo.java

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

/*

* Copyright (C) 2011-2015, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/TimeZoneFormat.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):

* /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) 2005-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/CopticCalendar.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/DataRecord.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatterService.java

* /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) 2003-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/StringPrepParseException.java

* /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) 2013, Google Inc, International Business Machines Corporation and *
* others. All Rights Reserved. *

*/

Found in path(s):
* /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) 2007-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *

*/

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/RelativeDateFormat.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/BasicTimeZone.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/RuleBasedTimeZone.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/VTimeZone.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):
* /icu4j-56-1-sources-jar/com/ibm/icu/util/OverlayBundle.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):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UnicodeSetStringSpan.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/BMPSet.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):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodBuilder.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatterFactory.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/DurationFormatter.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatter.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/TimeUnitConstants.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/RecordWriter.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/DateFormatter.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/RecordReader.java
*
```

```
/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/Period.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/TimeUnit.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):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterProperty.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UCharacterIterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSet.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIDataWrapper.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/SimpleDateFormat.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUBinary.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/StringSearch.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/VersionInfo.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterNameReader.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ReplaceableUCharacterIterator.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):

* /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) 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):

* /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) 2011, International Business Machines

* Corporation and others. All Rights Reserved.

* created on: 2011feb25

* created by: Markus W. Scherer

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternProps.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUDebug.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceBundleIterator.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):

* /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) 2007-2009, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodBuilderFactory.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatterFactory.java

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

/*

* Copyright (C) 2003-2014, Google, International Business Machines Corporation *

* and others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/GenderInfo.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):

* /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) 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):

* /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) 2011, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /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) 2001-2011, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/CurrencyServiceShim.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.

*/

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/FilteredBreakIteratorBuilder.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/OutputInt.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/ScientificNumberFormatter.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Pair.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/KeyTypeData.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):

```
* /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) 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):

```
* /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) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/

```

Found in path(s):

```

* /icu4j-56-1-sources-jar/com/ibm/icu/text/DecimalFormat.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/NumberFormat.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/DigitList.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/NFRuleSet.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/BreakIterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/NFRule.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedNumberFormat.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Utility.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/IslamicCalendar.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/DecimalFormatSymbols.java
*
* /icu4j-56-1-sources-jar/com/ibm/icu/text/NFSubstitution.java
* /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) 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):

* /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) 2015, International Business Machines Corporation and

* others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ClassLoaderUtil.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResource.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):

* /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) 2009-2011, Google, International Business Machines Corporation

* and others. All Rights Reserved.

*/

Found in path(s):

* /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) 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):

```
* /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) 1996-2010, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
/**
* A set of rules for a <code>RuleBasedTransliterator</code>. This set encodes
* the transliteration in one direction from one set of characters or short
* strings to another. A <code>RuleBasedTransliterator</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):

```
* /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) 2001-2012, International Business Machines
* Corporation and others. All Rights Reserved.
*****

```

*/

Found in path(s):

* /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) 2003-2010, International Business Machines

* Corporation and others. All Rights Reserved.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/IDNA2003.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):

* /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) 1996-2009, Google, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /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) 2004-2015, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ResourceBundleWrapper.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. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBNFPostProcessor.java

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

```
/*
*****
* Copyright (c) 2002-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Author: Mark Davis
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Relation.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):

* /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) 2007-2013, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /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) 2010-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* created on: 2010aug21
* created by: Markus W. Scherer
*/

```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePattern.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):

* /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) 1996-2010, International Business Machines Corporation and
* 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):

* /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) 1996-2015, International Business Machines Corporation and

* 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>getDateTimeInstance</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):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormatSymbols.java
```

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

```

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```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBBITableBuilder.java
```

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```

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```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/BidiRun.java
```

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```

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*/

```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRules.java
```

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/PluralFormat.java
```

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/DurationFormat.java
```

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*****
*
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_Unicode.java

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```
/*
*****
* 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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/MeasureFormat.java

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```
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*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/TimeUnit.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/TimeUnitFormat.java

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```
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*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RBNFChinesePostProcessor.java

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* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetDetector.java

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Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedCollator.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/UTF16.java

* /icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacter.java

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/*

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/BidiLine.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/Bidi.java

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Found in path(s):

* /icu4j-56-1-sources-jar/license.html

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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePatternUtil.java

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```
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*****
*   Date      Name      Description
*   06/06/2002 aliu      Creation.
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/AnyTransliterator.java

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```
/*
*****
```

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* Date Name Description
* 01/14/2002 aliu Creation.

*/

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* /icu4j-56-1-sources-jar/com/ibm/icu/text/StringReplacer.java

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* /icu4j-56-1-sources-jar/com/ibm/icu/text/SelectFormat.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/YMDDateFormatter.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrie.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CharTrie.java

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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog_UTF8.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationData.java

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

```
/*
*****
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*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/NumberingSystem.java

* /icu4j-56-1-sources-jar/com/ibm/icu/util/IllformedLocaleException.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CurrencyData.java

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```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/DontCareFieldPosition.java

```

/*
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*****
*/

```

```

/*
*****
* 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
*/

```

```

/*
*****
* Copyright (c) 2002-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Author: Alan Liu
* Created: November 5 2002
* Since: ICU 2.4
* 2010nov19 Markus Scherer Rewrite for formatVersion 2.
*****
*/

```

/*

 * Copyright (C) 1996-2010, International Business Machines Corporation and *
 * others. All Rights Reserved. *
 */

```

*****
*/

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/util/ValueIterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/TrieBuilder.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/RangeValueIterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrieBuilder.java
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/*
*****
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*****
*/

```

```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleDateRule.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_da_DK.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_CA.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_GB.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_it_IT.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleHoliday.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/DateRule.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterIteratorWrapper.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_fr_CA.java
*
* /icu4j-56-1-sources-jar/com/ibm/icu/util/TaiwanCalendar.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_el_GR.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_en_US.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de_DE.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_de_AT.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_es_MX.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CharacterIteratorWrapper.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_iw_IL.java
* /icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewHoliday.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_fr_FR.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/NullTransliterator.java
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle_ja_JP.java
* /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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*****

```

*
* Unicode Spoof Detection
*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/SpoofChecker.java

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/*

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* UTF16CollationIterator.java, ported from utf16collationiterator.h/.cpp

*

* C++ version created on: 2010oct27

* created by: Markus W. Scherer

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UTF16CollationIterator.java

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* /icu4j-56-1-sources-jar/com/ibm/icu/util/Output.java

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* others. All Rights Reserved. *

*

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/UniversalTimeScale.java

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/**

```
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /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) 2013-2015, International Business Machines
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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):

```
* /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) 2003-2015, International Business Machines Corporation and
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*****
*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UFormat.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/StringPrep.java
No license file was found, but licenses were detected in source scan.
```

```
/**
*****
* Copyright (C) 2001-2009, International Business Machines Corporation and *
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /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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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeDecompressor.java
* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeCompressor.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
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*****
* IterCollationIterator.java, ported from uitercollationiterator.h/.cpp
*
* C++ version created on: 2012sep23 (from utf16collationiterator.h)
* created by: Markus W. Scherer
*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/IterCollationIterator.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
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*/
```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/ResourceBasedPeriodFormatterDataService.java
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```

```
/*
*****
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* others. All Rights Reserved. *
*****
*/
/**
* <code>Replaceable</code> 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.

*

* `<p>`An implicit aspect of the `<code>Replaceable</code>` API is that

* during a replace operation, new characters take on the

metadata of

* the old characters. For example, if the string "the `<b>bold</b>`

* font" has range (4, 8) replaced with "strong", then it becomes "the

* `<b>strong</b>` font".

*

* `<p><code>Replaceable</code>` 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.

*

* `<p><code>Replaceable</code>` also includes API to access characters

* in the string: `<code>length()</code>`, `<code>charAt()</code>`,

* `<code>char32At()</code>`, and `<code>extractBetween()</code>`.

*

* `<p>`For a subclass to support metadata, typical behavior of

* `<code>replace()</code>` is the following:

* `<ul>`

* `<li>`Set the metadata of the new text to the metadata of the first

* character replaced`</li>`

* `<li>`If no characters are replaced, use the metadata of the

* previous character`</li>`

* `<li>`If there is no previous character (i.e.

start == 0), use the

* following character`</li>`

* `<li>`If there is no following character (i.e. the replaceable was

* empty), use default metadata`<br>`

* `<li>`If the code point U+FFFF is seen, it should be interpreted as

* a special marker having no metadata`<li>`

* `</li>`

* `</ul>`

* If this is not the behavior, the subclass should document any differences.

*

* `<p>`Copyright © IBM Corporation 1999. All rights reserved.

*

* @author Alan Liu

* @stable ICU 2.0

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/Replaceable.java

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```
/*
*****
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* others. All Rights Reserved.
*****
*/
// "Copyright (C) 2010, International Business Machines Corporation and others. All Rights Reserved.";
```

Found in path(s):
* /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) 2009-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
// Hashing implementation functions. FNV hash. Respected public domain algorithm.
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2.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):
* /icu4j-56-1-sources-jar/com/ibm/icu/util/EthiopicCalendar.java
No license file was found, but licenses were detected in source scan.

```
/*
*****
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*/
```

Found in path(s):
* /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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* Corporation and others. All Rights Reserved.

* Date Name Description

* 06/08/01 aliu Creation.

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/NormalizationTransliterator.java

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/*

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/DateTimePatternGenerator.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/BidiClassifier.java

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeNameTransliterator.java

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*/

Found in path(s):

* /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) 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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/ContractionsAndExpansions.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/StringTokenizer.java

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

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*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/IllegalIcuArgumentException.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):

* /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) 2013, International Business Machines Corporation and *
* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/CharacterIteration.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.

* CollationSettings.java, ported from collationsettings.h/.cpp
*

* C++ version created on: 2013feb07
* created by: Markus W. Scherer

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationSettings.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/UnescapeTransliterator.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/EscapeTransliterator.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/Freezable.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):

* /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) 2012-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 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>Rule syntax</p>
 *

* <p>Rule statements take one of the following forms: </p>
 *

* <dl>
 * <dt><code>\$alefmadda=\u0622;</code></dt>
 * <dd>Variable definition. The name on the
 * left is assigned the text on the right. In this example,
 * after this statement, instances of the left hand name,
 * "<code>\$alefmadda</code>", 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 ("<code>\$empty=</code>").
 * The right hand side may contain embedded <code>UnicodeSet</code>
 * patterns, for example, "<code>\$softvowel=[eiyEIY]</code>".</dd>
 * <dd> </dd>
 * <dt><code>ai>\$alefmadda;</code></dt>
 * <dd>Forward translation rule. This rule
 * states that the string on the left will be changed to the
 * string on the right when performing forward
 * transliteration.</dd>
 * <dt> </dt>
 * <dt><code>ai<\$alefmadda;</code></dt>
 * <dd>Reverse translation rule. 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<>\$alefmadda;</code></dt>
 * <dd>Bidirectional translation rule. 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 match pattern and an output string. 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 "<code>abc{def}</code>" indicates the characters "<code>def</code>" must be preceded by "<code>abc</code>" for a successful match. If there is a successful match, "<code>def</code>" will be replaced, but not "<code>abc</code>". The final '<code></code>' is optional, so "<code>abc{def}</code>" is equivalent to "<code>abc{def}</code>". Another example is "<code>{123}456</code>" (or "<code>123}456</code>") in which the literal pattern "<code>123</code>" must be followed by "<code>456</code>".

* </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 cursor 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 > | @ bar; # foo -> bar, move cursor before a
 {foo} xyz > bar @&|; # foo -> bar, cursor between y and z</code></p>

* </blockquote>

* <p>UnicodeSet</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 "<code>\$a=[a-z];\$not_a=[^\$a]</code>", or "<code>\$range=a-z;\$ll=[\$range]</code>".</p>

* <p><code>UnicodeSet</code> patterns may also be embedded directly into rule strings. Thus, the following two rules are equivalent:</p>

[illegible]

```
* match either the beginning or the end of the text, depending on its placement. For
* example:</p>
*
* <blockquote>
*   <p><code>$x = [a-z$]; &nbsp;&nbsp;&nbsp;&#match 'a' through 'z' OR anchor<br>
*     $x 1&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&gt; 2;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;& # match '1' after a-z or at the start<br>
*       &nbsp;&nbsp;&nbsp;& 3 $x &gt; 4; &nbsp;&nbsp;&nbsp;&nbsp;& # match '3' before a-z or at the end</code></p>
* </blockquote>
*
* <p><b>Example</b> </p>
*
* <p>The following example rules illustrate many of the features of
* the rule language. </p>
*
* <table border="0" cellpadding="4">
*   <tr>
*     <td valign="top">Rule 1.</td>
*     <td valign="top" nowrap><code>abc{def}&gt;x|y</code></td>
*   </tr>
*   <tr>
*     <td valign="top">Rule 2.</td>
*     <td valign="top" nowrap><code>xyz&gt;r</code></td>
*   </tr>
*   <tr>
*     <td valign="top">Rule 3.</td>
*     <td valign="top" nowrap><code>y z&gt;q</code></td>
*   </tr>
* </table>
*
* <p>Applying these rules to the string &quot;<code>a def abc def z</code>&quot;;
* yields the following results: </p>
*
* <table border="0" cellpadding="4">
*   <tr>
*     <td valign="top" nowrap><code>|a def abc def z</code></td>
*     <td valign="top">Initial state, no rules match. Advance
* cursor.</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>a | def abc def z</code></td>
*     <td valign="top">Still no match. Rule 1 does not match
because the preceding context is not present.</td>
*   </tr>
*   <tr>
*     <td valign="top" nowrap><code>a d | ef abc def z</code></td>
*     <td valign="top">Still no match. Keep advancing until
there is a match...</td>
```



```

* </tr>
* <tr>
*   <td valign="top" nowrap><code>ade|fabcdefz</code></td>
*   <td valign="top">...</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>ade|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):

```
* /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) 2009-2012, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/

```

Found in path(s):

```
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUDataVersion.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):

```
* /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) 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):

* /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) 2005-2015 International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 2003-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 2005-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/OlsonTimeZone.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):

* /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) 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):

* /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) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/ParseStatus.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):

* /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) 2007-2015 International Business Machines Corporation and *
* others. All rights reserved. *
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/SimpleCache.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleDisplayNamesImpl.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyDisplayNames.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/LocaleDisplayNames.java

* /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) 2011-2015, International Business Machines Corporation      *
* All Rights Reserved.                                                    *
*****
*/
```

Found in path(s):

* /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) 1996-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewCalendar.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/BreakTransliterator.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterName.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):

* /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) 2001-2011, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*
* created on: 2014feb10
* created by: Markus W. Scherer
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UVector32.java
* /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) 2007-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatter.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.
*****
* Author: M. Davis
* Created: December 2002 (moved from UnicodeSet)
* Since: ICU 2.4
*****
*/
```

Found in path(s):
* /icu4j-56-1-sources-jar/com/ibm/icu/impl/SortedSetRelation.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):

* /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) 2007-2010, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicPeriodFormatter.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/XMLRecordReader.java

* /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) 2007-2014, International Business Machines

* Corporation and others. All Rights Reserved.

*/

Found in path(s):

* /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) 2009-2014, Google, Inc.; International Business Machines Corporation *

* and others. All Rights Reserved. *

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/LocaleData.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/TransliteratorRegistry.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 bytestriebuilder.h/.cpp

*/

Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrieBuilder.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CollationKey.java

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/BOCSU.java

* /icu4j-56-1-sources-jar/com/ibm/icu/lang/UProperty.java

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CollationElementIterator.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):

* /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) 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):

* /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) 2004-2006, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

* /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) 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):

* /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) 2001-2008, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

* /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) 2010-2013, International Business Machines Corporation and *

* others. All Rights Reserved. *

*/

Found in path(s):

* /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):

* /icu4j-56-1-sources-jar/com/ibm/icu/text/CollatorServiceShim.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):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicPeriodBuilderFactory.java

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

/*

* *****

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Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/impl/TextTrieMap.java

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Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/InitialTimeZoneRule.java

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Found in path(s):

* /icu4j-56-1-sources-jar/com/ibm/icu/util/GregorianCalendar.java

1.339 bean-validation-api 1.1.0.Final

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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ParameterDescriptor.java

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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ParameterNameProvider.java

* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ConstructorDescriptor.java

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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintViolationException.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ConfigurationState.java
*
/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorFactory.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidatorContext.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidatorFactory.java
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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/package-info.java
*
/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/executable/package-info.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraintvalidation/package-info.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/package-info.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/package-info.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/CascadableDescriptor.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/package-info.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintTarget.java
*
/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/package-info.java
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Found in path(s):

- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/Valid.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Past.java
- *
- /validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/GenericBootstrap.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/Payload.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidator.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ConstraintDescriptor.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Null.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Min.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Pattern.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ValidationProvider.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertFalse.java
- * /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ElementDescriptor.java
- *

```

/validation-api-1-1-0-final-sources-5-jar/javax/validation/Constraint.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDefinitionException.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Future.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Digits.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/Scope.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/UnexpectedTypeException.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/NotNull.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertTrue.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidationProviderResolver.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/GroupDefinitionException.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDeclarationException.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Max.java
*
/validation-api-1-1-0-final-sources-5-jar/javax/validation/OverridesAttribute.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidationException.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/Default.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/BootstrapState.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/Validation.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/PropertyDescriptor.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/TraversableResolver.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Size.java
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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintViolation.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMax.java
*
/validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/package-info.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorContext.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/Path.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/Validator.java

```

* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ReportAsSingleViolation.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/MessageInterpolator.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/BeanDescriptor.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMin.java
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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ElementKind.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/executable/ExecutableType.java
*

/validation-api-1-1-0-final-sources-5-jar/javax/validation/executable/ExecutableValidator.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ReturnValueDescriptor.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/executable/ValidateOnExecution.java

1.340 okhttp 3.7.0

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```
* /okhttp-3-7-0-sources-3-jar/okhttp3/MultipartBody.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/RealCall.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/CipherSuite.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/Version.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/FormBody.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/ws/WebSocketProtocol.java  
*  
* /okhttp-3-7-0-sources-3-jar/okhttp3/CertificatePinner.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/Protocol.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/HttpMethod.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/Interceptor.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/ConnectionSpec.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache/CacheRequest.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/PushObserver.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/Callback.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/TlsVersion.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/Call.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/Credentials.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/ws/WebSocketWriter.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/Internal.java  
* /okhttp-3-7-0-sources-3-jar/okhttp3/RequestBody.java
```

```
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Header.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/Challenge.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/ws/WebSocketReader.java
*
/okhttp-3-7-0-sources-3-jar/okhttp3/ResponseBody.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/RealResponseBody.java
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```
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/Util.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/Address.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/HttpCodec.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http1/Http1Codec.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/HttpHeaders.java
*
/okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Http2Codec.java
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- * /okhttp-3-7-0-sources-3-jar/okhttp3/Dispatcher.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Http2.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/Response.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/Request.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/RouteDatabase.java
- *
- /okhttp-3-7-0-sources-3-jar/okhttp3/Handshake.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache/CacheStrategy.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/Route.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/MediaType.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache/InternalCache.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/ErrorCode.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/RequestLine.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/NamedRunnable.java
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Found in path(s):

- * /okhttp-3-7-0-sources-3-jar/okhttp3/EventListener.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java

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Found in path(s):

```

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/RouteSelector.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/Dns.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Settings.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/OkHttpClient.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Ping.java
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```

Found in path(s):

```

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache/DiskLruCache.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/HttpDate.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Http2Reader.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Http2Connection.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Http2Writer.java
*
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Http2Stream.java
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* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache/CacheInterceptor.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/ConnectionPool.java
 *
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/platform/OptionalMethod.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/RealConnection.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/tls/OkHostnameVerifier.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/Connection.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/BridgeInterceptor.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/Headers.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/ConnectInterceptor.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/tls/CertificateChainCleaner.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/tls/DistinguishedNameParser.java
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Found in path(s):

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/StreamAllocation.java
 * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/io/FileSystem.java


```
* /okhttp-3-7-0-sources-3-jar/okhttp3/Cookie.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/CookieJar.java
*
/okhttp-3-7-0-sources-3-jar/okhttp3/HttpUrl.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache/FaultHidingSink.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/connection/RouteException.java
* /okhttp-3-7-0-sources-3-jar/okhttp3/Authenticator.java
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```
* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Huffman.java
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```
* /okhttp-3-7-0-sources-3-jar/okhttp3/Cache.java
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* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/platform/Platform.java

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* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/ws/RealWebSocket.java

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/RealInterceptorChain.java

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/StreamResetException.java

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/CallServerInterceptor.java

* /okhttp-3-7-0-sources-3-jar/okhttp3/WebSocketListener.java

*

/okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java

* /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache2/FileOperator.java

- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/UnrepeatableRequestBody.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/platform/AndroidPlatform.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/cache2/Relay.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/WebSocket.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/tls/TrustRootIndex.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/platform/Jdk9Platform.java
- * /okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/ConnectionShutdownException.java

1.341 jta 1.1

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1.343 commons-collections 3.1

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* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/InstantiateTransformer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/CompositeCollection.java
*
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/ListUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/PriorityQueue.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/IfClosure.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/PredicateTransformer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ConstantFactory.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/PrototypeFactory.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/EqualPredicate.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NonePredicate.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/Closure.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/CloneTransformer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NullIsExceptionPredicate.java
*
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/StringValueTransformer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/AllPredicate.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/CollectionUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/IdentityPredicate.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/InvokerTransformer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/DefaultMapEntry.java
```


- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ChainedClosure.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/FactoryTransformer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ChainedTransformer.java
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- /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/AnyPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/LRUMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/AndPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ExceptionClosure.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/OnePredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ExceptionTransformer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ExceptionFactory.java
- * /commons-collections-3-1-sources-
- jar/org/apache/commons/collections/comparators/TransformingComparator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/FastTreeMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NotNullPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/MultiHashMap.java
- *
- /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/ComparableComparator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/OrderedMapIterator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/TruePredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/BeanMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NullIsFalsePredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NotPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EntrySetMapIterator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/TreeBidiMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/OrPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/TransformerClosure.java
- *
- /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/TransformerPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/Predicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NullPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/ArrayStack.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/AbstractLinkedList.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/LRUMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/MultiMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/WhileClosure.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/Transformer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/NullComparator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NOPTransformer.java
- *
- /commons-collections-3-1-sources-jar/org/apache/commons/collections/OrderedMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ClosureTransformer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/UniquePredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/FunctorUtils.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/NodeCachingLinkedList.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/TransformedPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/FunctorException.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/ExtendedProperties.java

- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/MapUtils.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/InstantiateFactory.java
- *
- /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/SetUniqueList.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/FastHashMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NOPClosure.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/BinaryHeap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/SwitchTransformer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/SwitchClosure.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/InstanceofPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/ReverseComparator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/FixedOrderComparator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/NullIsTruePredicate.java
- *
- /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/FalsePredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/SynchronizedPriorityQueue.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ForClosure.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/FastArrayList.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/ReferenceMap.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/DefaultMapEntry.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/ExceptionPredicate.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/MapTransformer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/PriorityBuffer.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/Bag.java

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- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/TransformIterator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/FilterIterator.java
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/ComparatorChain.java
- *

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/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ProxyIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ArrayListIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableMapIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ArrayIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ListIteratorWrapper.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EnumerationIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/IteratorChain.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableListIterator.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/SingletonIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/LoopingIterator.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/IteratorEnumeration.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/SingletonListIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ObjectArrayIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/FilterListIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/CollatingIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UniqueFilterIterator.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ProxyListIterator.java
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```

* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/collection/AbstractSerializableCollectionDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/ReferenceIdentityMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyIterator.java
*

```

```

/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/CaseInsensitiveMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/AbstractEmptyIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyListIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/AbstractSerializableSetDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/MultiKeyMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ObjectGraphIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/MapBackedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyOrderedIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyOrderedMapIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/TreeList.java
*
/commons-collections-3-1-sources-
jar/org/apache/commons/collections/map/AbstractInputCheckedMapDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/PredicateDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyMapIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/AbstractSerializableListDecorator.java
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* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/AbstractMapBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/SetUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/TreeBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/TransformerUtils.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/StaticBucketMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/SortedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/DefaultMapBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/DoubleOrderedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/SequencedHashMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/BufferUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractReferenceMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/IteratorUtils.java

```

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* /commons-collections-3-1-sources-jar/org/apache/commons/collections/FactoryUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/StaticBucketMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/BoundedFifoBuffer.java
*
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/CursorableLinkedList.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/Factory.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/ReferenceMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/BagUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/CursorableLinkedList.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/UnboundedFifoBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/BoundedCollection.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/BufferUnderflowException.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/BoundedFifoBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/ComparatorUtils.java
*
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/ProxyMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/TreeBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/HashBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/BufferOverflowException.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/PredicateUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/Buffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/ClosureUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/HashBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/UnboundedFifoBuffer.java

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* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/AbstractSortedSetDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/UnmodifiableMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/PredicatedCollection.java
*

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/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/ListOrderedMap.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/bidimap/AbstractOrderedBidiMapDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/FixedSizeList.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/DualTreeBidiMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/AbstractIteratorDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/SynchronizedBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/TransformedSortedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/ResettableListIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/TypedCollection.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/LazyList.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/FixedSizeSortedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/SingletonMap.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/iterators/AbstractListIteratorDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/UnmodifiableList.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/HashMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/UnmodifiableSortedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/PredicatedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/UnmodifiableSortedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/TransformedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/AbstractSetDecorator.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/set/PredicatedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/TypedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractMapDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/TypedSortedMap.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/bidimap/AbstractSortedBidiMapDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/AbstractBagDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/TransformedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/TypedSortedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/UnmodifiableBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/UnmodifiableMapEntry.java
* /commons-collections-3-1-sources-
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*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/UnmodifiableSortedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/TypedSortedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/UnmodifiableCollection.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/OrderedIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/OrderedBidiMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/SynchronizedSortedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/TransformedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/IterableMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/PredicatedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/ListOrderedSet.java

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*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/AbstractBidiMapDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/UnmodifiableOrderedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/ResettableIterator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/IdentityMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractSortedMapDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractHashMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/PredicatedSortedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractLinkedMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/EnumerationUtils.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/DualHashBidiMap.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/TypedBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/Flat3Map.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/TypedBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/AbstractMapEntry.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/FixedSizeMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/UnmodifiableBag.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/AbstractListDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/CompositeSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/TypedList.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/Unmodifiable.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/SortedBidiMap.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/UnmodifiableBidiMap.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/TransformedCollection.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/CircularFifoBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/BooleanComparator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/UnmodifiableEntrySet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/TransformedSortedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/TransformedBuffer.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/TypedSet.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/AbstractKeyValue.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/SynchronizedBag.java
*
/commons-collections-3-1-sources-jar/org/apache/commons/collections/MapIterator.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/collection/AbstractCollectionDecorator.java
* /commons-collections-3-1-sources-
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* /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/AbstractSortedBagDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/TransformedList.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/BlockingBuffer.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/keyvalue/AbstractMapEntryDecorator.java
* /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/PredicatedBuffer.java
* /commons-collections-3-1-sources-
jar/org/apache/commons/collections/collection/UnmodifiableBoundedCollection.java

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*
 /commons-collections-3-1-sources-
 jar/org/apache/commons/collections/iterators/AbstractOrderedMapIteratorDecorator.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/DefaultKeyValue.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/SynchronizedList.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/LinkedMap.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/AbstractDualBidiMap.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/SynchronizedSet.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/UnmodifiableSet.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/PredicatedList.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/BidiMap.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/BoundedMap.java
 * /commons-collections-3-1-sources-
 jar/org/apache/commons/collections/bidimap/UnmodifiableSortedBidiMap.java
 *
 /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/SynchronizedCollection.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/LazySortedMap.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/LazyMap.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/SynchronizedSortedBag.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/KeyValue.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/MultiKey.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/PredicatedSortedBag.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/TiedMapEntry.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/PredicatedSortedSet.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/TransformedSortedMap.java
 *
 /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/AbstractBufferDecorator.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/CompositeMap.java
 * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractOrderedMapDecorator.java
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- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/set/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/package.html
- *
- /commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/map/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/list/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/package.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/overview.html
- * /commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/package.html

1.344 google-http-client-xml 1.20.0

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 */
```

Found in path(s):

- * /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/atom/package-info.java
- * /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/atom/AtomContent.java

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 */
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*/

Found in path(s):

* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/atom/AtomFeedParser.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/Xml.java
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*
/google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/GenericXml.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/atom/Atom.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/package-info.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/http/xml/XmlHttpContent.java
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* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/XmlObjectParser.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/XmlNamespaceDictionary.java
* /google-http-client-xml-1-20-0-sources-2-jar/com/google/api/client/xml/package-info.java

1.345 javax-xml-soap-api 1.4.0

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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
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- *
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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannel.java
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- *
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- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/PendingBytesTracker.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
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- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java9SslEngine.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java

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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>
*
* {<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>
* 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> {
*
*     <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}<{@link Channel}> {

*

* private static final DataServerHandler SHARED = new DataServerHandler();

*

* {@code @Override}

* public void initChannel({@link Channel} channel) {

* channel.pipeline().addLast("handler", SHARED);

* }

* }

* </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

* the JCIP annotations.

*

* <h3>Additional resources worth reading</h3>

* <p>

* Please refer to the {@link ChannelHandler}, and

* {@link ChannelPipeline} to find out more about inbound and outbound operations,

* what fundamental differences they have, how they flow in a pipeline, and how to handle

* the operation in your application.

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 * /netty-all-4-1-46-final-sources-jar/io/netty/example/ocsp/Digester.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java

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- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledHeapByteBuf.java

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- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolChunkMetric.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/HttpServer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ClientAuth.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2RequestHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http1RequestHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/FallbackRequestHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/HashingStrategy.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Html.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/LongCounter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoClient.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java
- *

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/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Launcher.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/Errors.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/ImageCache.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolArenaMetric.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/InetNameResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java

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*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2HandlerBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2OrHttpHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/Socket.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2Server.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/HeapByteBufUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/AsyncMapping.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/AddressResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/UnixChannel.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/cors/OkResponseHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/ValueConverter.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
 *
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/MathUtil.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/ByteProcessor.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
 *
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/StreamByteDistributor.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java

*

/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java

* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java

* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java

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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

```

Found in path(s):

`/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java`
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Found in path(s):

`/netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java`
`/netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java`
`/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/CleanerJava6.java`
`/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java`
`/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java`
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/*

* Adaptation of <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/>

*

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Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java

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Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java

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*/

/**

* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.

*

<p>

* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.

*

* <h3>2 bytes length field at offset 0, do not strip header</h3>

*

* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes

* that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

* <pre>

* lengthFieldOffset = 0

* lengthFieldLength = 2

* 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

* initialBytesToStrip = 2 (= the length of the Length field)

*

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

* +-----+-----+ +-----+

* | Length | Actual Content |---->| Actual Content |

* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |

* +-----+-----+ +-----+

* </pre>

*

* <h3>2 bytes length field at offset 0, do not strip header, the length field

* represents the length of the whole message</h3>

*

* In most cases, the length field represents the length of the message body

* only, as shown in the previous examples. However, in some protocols, the

* length field represents the length of the whole message, including the

* message header. In such a case, we specify a non-zero

* <tt>lengthAdjustment</tt>. Because the length value in this example message

* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>

* as <tt>lengthAdjustment</tt> for compensation.

* <pre>

```

* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   |
  0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |

```

```

* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |

```

```
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/
```

Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLContext.java

* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSL.java

* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/Library.java

* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/Buffer.java

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```

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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/worldclock/WorldClockProtocol.proto
*
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/Cleaner.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/SocksServerHandler.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/util/Constant.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/factorial/BigIntegerDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/file/FileServer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/discard/DiscardServer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/timeout/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http/cors/HttpCorsServerInitializer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/server/WebSocketFrameHandler.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelMetadata.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpResponseEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/HashedWheelTimer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/SocksServerUtils.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http/upload/HttpUploadServerInitializer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpContent.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/rendezvous/package-info.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/EventLoop.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolChunk.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpClientCodec.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/example/http/cors/HttpCorsServer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/example/echo/EchoServer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/securechat/SecureChatServerHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/worldclock/WorldClockServerInitializer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DecoderException.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/example/proxy/HexDumpProxyFrontendHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/DirectClientHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/localecho/LocalEcho.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/telnet/TelnetServerInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/portunification/PortUnificationServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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* <p>
*
* The encoding and decoding algorithm in this class has been derived from
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* Base64 Encoder/Decoder</a>.
*/

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```

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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Found in path(s):

```
* /netty-all-4-1-46-final-sources-jar/io/netty/example/redis/RedisClient.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisCodecException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/package-info.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisConstants.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisMessageType.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBrokerHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelHandlerMask.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
- * /netty-all-4-1-46-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBroker.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/package-info.java
- * /netty-all-4-1-46-final-sources-
- jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/address/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/Hidden.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/CertificateCallbackTask.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClientHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java
- * /netty-all-4-1-46-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
- * /netty-all-4-1-46-final-sources-
- jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLTask.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ObjectPool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/MaxCapacityQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/macos/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
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/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EventAdapter.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/IntCollections.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Exception.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java

*

/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2DataWriter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/CharObjectMap.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameListener.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ObjectUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/ByteCollections.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameReader.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/IntObjectMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/Http2ExampleUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/CharCollections.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/LongObjectMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/ShortCollections.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Connection.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/ShortObjectMap.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Headers.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2LifecycleManager.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttQoS.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Error.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/Headers.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/client/Http2SettingsHandler.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Stream.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameTypes.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2RemoteFlowController.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/client/Http2Client.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/LongCollections.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Settings.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FlowController.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameWriter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Flags.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2CodecUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/collection/ByteObjectMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
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Found in path(s):

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* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/CertificateCallback.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/Cache.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/Buffer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/SuppressJava6Requirement.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslTlsV13X509ExtendedTrustManager.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/flow/FlowControlHandler.java
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* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/memcache/binary/MemcacheClient.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/server/Http2ServerInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakHint.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlSpace.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java

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* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/proxy/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/stomp/StompClient.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlElement.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/StompFrame.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/file/FileServerHandler.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/client/WebSocketClient.java

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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/StompConstants.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/IovArray.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/NameResolver.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/CertificateVerifier.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemReader.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
- * /netty-all-4-1-46-final-sources-
- jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
- ava
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessage.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/json/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameLogger.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/memcache/binary/MemcacheClientHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlDTD.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
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/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
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* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/spdy/client/SpdyClientInitializer.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/IntegerHolder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/AsciiString.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/spdy/server/SpdyServerInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/package-info.java
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Found in path(s):

```

* /netty-all-4-1-46-final-sources-jar/io/netty/util/ByteProcessorUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ResourcesUtil.java
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Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
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Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/package-info.java
*
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java
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```

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
*
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
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*/

/**
* Enumeration of supported Base64 dialects.
*
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert

```

Harder's Public Domain

* Base64 Encoder/Decoder.

*/

Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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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 TCP_QUICKACK

* for more details.

*/

Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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```

* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableViewQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCGrowableViewQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCLinkedQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /netty-all-4-1-46-final-sources-

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```

jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpSCLinkedArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
*
/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
*
/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-

```

```

jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscArrayQueue.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/UdtChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/DefaultSctpServerChannelConfig.java

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Found in path(s):

```

* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java
*
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java
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Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
 *
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
 *
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2DataFrame.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/BooleanSupplier.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
 *
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/package-info.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/example/redis/RedisClientHandler.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
 * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpCommand.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DateFormat.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ResetFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/flush/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/package-info.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakTracker.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2Server.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequests.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameCodec.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/InflightNameResolver.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamException.java
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- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpContent.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/flow/package-info.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java

- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2Frame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsCache.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemValue.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/IntSupplier.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/Limits.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/UnstableApi.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/SelectStrategy.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2ServerInitializer.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2WindowUpdateFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpUtils.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyTLV.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java
- *
- /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoop.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2PingFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueue.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannel.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamFrame.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamFrameToHttpObjectCodec.java
- *

/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequest.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/Native.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponse.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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Found in path(s):

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HttpConversionUtil.java
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- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
- * /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

1.352 stax-api 1.0.1

1.352.1 Available under license :

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):

- * /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):

* /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.

/**

* An interface for comment events

*

* @version 1.0

* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

*/

Found in path(s):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/Comment.java

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

/**

* 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):

* /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.

/**

* 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):

* /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 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):

* /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.

```
/**
 * 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 &amp; , &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):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/XMLStreamWriter.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.XMLStreamReader
- * @see Characters
- * @see ProcessingInstruction
- * @see StartElement
- * @see EndElement
- * @see StartDocument
- * @see EndDocument
- * @see EntityReference
- * @see EntityDeclaration
- * @see NotationDeclaration
- */

Found in path(s):

- * /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.

/**

- * 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):

- * /stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/Characters.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):

* /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.

/**

- * 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):

* /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.

/**

- * 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 [method causes the reader to read the next parse event.](#next())
- * The next() method returns an integer which identifies the type of event just read.
- * <p> The event type can be determined using [.](#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
- * `List l = (List) getProperty("javax.xml.stream.notation");`
- * The following call will return a list of entity declarations:
- * `List l = (List) getProperty("javax.xml.stream.entities");`
- * 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>
* <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>
* <td> NAMESPACE </td>
* <td> next(), nextTag()
*     getNamespaceXXX()
* </td>
* </tr>
* <td> END_ELEMENT </td>
* <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
*     getNamespaceXXX(), nextTag()
* </td>
* </tr>
* <td> CHARACTERS </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <td> CDATA </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <td> COMMENT </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </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):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/XMLStreamReader.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):

* /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 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):

* /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.

/**

* 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):

* /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.

/**

* 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):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/DTD.java

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

/**

* 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):

* /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.

```
/**
 * 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):

* /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.

```
/**
 * 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):

* /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.

```
/**
 * An interface for the start document event
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/StartDocument.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):

* /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.

/**

* 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):

* /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 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):

* /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.

/**

* 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):

`/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.

```

/**
*
* 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):

`/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.

```

/**
* 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):

`/stax-api-1-0-2-sources-zip/src/javax/xml/stream/XMLStreamException.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 XMLStreamReaders

```

* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/

Found in path(s):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/StreamFilter.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):

* /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.

/**

* 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):

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/Namespace.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):

* /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.

/**

* 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):

```

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/events/ProcessingInstruction.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):

```

* /stax-api-1-0-2-sources-zip/src/javax/xml/stream/XMLEventWriter.java

```

1.353 jackson-jaxrs-xml-provider 2.10.4

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1.354 jackson-jaxrs 2.10.4

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1.355 jackson-databind 2.10.4

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1.356 jackson-dataformat-xml 2.10.4

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1.357 jackson-jaxrs-base 2.10.4

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1.359 jackson-core 2.10.4

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1.361 woodstox-core 6.2.0

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1.362 springsource-javax-validation 1.0.0.GA

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Found in path(s):

* /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintDeclarationException.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Min.java

*

/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Max.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/spi/BootstrapState.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidatorFactory.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/spi/ConfigurationState.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Future.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/Scope.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/groups/package-info.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/ReportAsSingleViolation.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/ElementDescriptor.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidatorFactory.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Size.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/spi/ValidationProvider.java

*

/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Past.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/AssertFalse.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/Validator.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/Valid.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintDefinitionException.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/GroupDefinitionException.java

* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/DecimalMax.java

- * /validation-api-1-0-0-ga-sources-jar/javax/validation/Validation.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/groups/Default.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/MessageInterpolator.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintViolation.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/UnexpectedTypeException.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/NotNull.java
- *
- /validation-api-1-0-0-ga-sources-jar/javax/validation/Configuration.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidator.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/ConstraintDescriptor.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidationProviderResolver.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidatorContext.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/PropertyDescriptor.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintViolationException.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidatorContext.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/TraversableResolver.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/Payload.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/BeanDescriptor.java
- *
- /validation-api-1-0-0-ga-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/OverridesAttribute.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/Path.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/DecimalMin.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/AssertTrue.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Pattern.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/Constraint.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Digits.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Null.java
- * /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidationException.java

1.363 ojdbc 7

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1.364 scala-library 2.10.0

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```
/**
 *
 * A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass`
 * field. This is particularly useful for instantiating `Array`s whose element types are unknown
 * at compile time.
 *
 * `ClassTag`s are a weaker special case of [[scala.reflect.api.TypeTags#TypeTag]]s, in that they
 * wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type
 * information. That is, `ClassTag`s are constructed from knowing only the top-level class of a
 * type, without necessarily knowing all of its argument types. This runtime information is enough
 * for runtime `Array` creation.
 *
 * For example:
 * {{{
 * scala> def mkArray[T : ClassTag](elems: T*) = Array[T](elems: _*)
 * mkArray: [T](elems: T*)(implicit evidence$1: scala.reflect.ClassTag[T])Array[T]
 *
 * scala> mkArray(42, 13)
 * res0: Array[Int] = Array(42, 13)
 *
 * scala> mkArray("Japan", "Brazil", "Germany")
 * res1: Array[String] = Array(Japan, Brazil, Germany)
 * }}}
 *
 * See [[scala.reflect.api.TypeTags]] for more examples, or the
 * [[http://docs.scala-lang.org/overviews/reflection/typetags-manifests.html Reflection Guide: TypeTags]]
 * for more details.
 */
```

Found in path(s):

* /scala-library-2-10-0-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):

```
* /scala-library-2-10-0-sources-jar/scala/xml/Elem.scala
```

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```

/**
* Copyright 2008 Google Inc. All Rights Reserved.
* @author Burak Emir <bqe@google.com>
*/
/** This class represents an attribute and at the same time a linked list of
* attributes. Every instance of this class is either
* - an instance of `UnprefixedAttribute key,value` or
* - an instance of `PrefixedAttribute namespace_prefix,key,value` or
* - `Null`, the empty attribute list.
*
* Namespace URIs are obtained by using the namespace scope of the element
* owning this attribute (see `getNamespace`).
*
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*/

```

Found in path(s):

```
* /scala-library-2-10-0-sources-jar/scala/xml/MetaData.scala
```

1.365 shiro-core 1.6.0

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1.366 mime-pull 1.9.6

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1.367 commons-digester 1.8.1

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1.368 commons-codec 1.9

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1.375 byte-buddy 1.10.15

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1.378 spring-rabbit 1.2.0.RELEASE

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* /spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/config/AbstractExchangeParser.java

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jar/org/springframework/amqp/rabbit/connection/CachingConnectionFactory.java

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jar/org/springframework/amqp/rabbit/connection/RabbitResourceHolder.java

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jar/org/springframework/amqp/rabbit/connection/ConnectionFactoryUtils.java

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jar/org/springframework/amqp/rabbit/connection/AbstractConnectionFactory.java

* /spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/SimpleConnection.java

* /spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/config/NamespaceUtils.java

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jar/org/springframework/amqp/rabbit/listener/adapters/MessageListenerAdapter.java

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jar/org/springframework/amqp/rabbit/listener/SimpleMessageListenerContainer.java

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jar/org/springframework/amqp/rabbit/support/DefaultMessagePropertiesConverter.java

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jar/org/springframework/amqp/rabbit/listener/BlockingQueueConsumer.java

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jar/org/springframework/amqp/rabbit/retry/RejectAndDontRequeueRecoverer.java

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jar/org/springframework/amqp/rabbit/core/support/RabbitGatewaySupport.java

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* /spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/connection/CompositeChannelListener.java
*
/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/ChannelListener.java
* /spring-rabbit-1-2-0-release-sources-5-
jar/org/springframework/amqp/rabbit/connection/CompositeConnectionListener.java
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jar/org/springframework/amqp/rabbit/core/ChannelAwareMessageListener.java
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jar/org/springframework/amqp/rabbit/config/StatelessRetryOperationsInterceptorFactoryBean.java

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jar/org/springframework/amqp/rabbit/config/AbstractRetryOperationsInterceptorFactoryBean.java

* /spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/retry/MessageRecoverer.java

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jar/org/springframework/amqp/rabbit/connection/ConsumerChannelRegistry.java

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jar/org/springframework/amqp/rabbit/support/RabbitExceptionTranslator.java

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1.379 quartz 1.8.6

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- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/counter/sampled/SampledCounterConfig.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/counter/sampled/SampledRateCounterImpl.java
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- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/counter/sampled/SampledCounter.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/counter/CounterConfig.java
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- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/CircularLossyQueue.java
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 * /quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/BaseCalendar.java
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 * /quartz-1-8-6-sources-1-jar/org/quartz/utis/Pair.java
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 */
```

Found in path(s):

```
* /quartz-1-8-6-sources-1-jar/org/quartz/listeners/JobListenerSupport.java
* /quartz-1-8-6-sources-1-jar/org/quartz/listeners/TriggerListenerSupport.java
* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/TablePrefixAware.java
* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
*
* /quartz-1-8-6-sources-1-jar/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java
* /quartz-1-8-6-sources-1-jar/org/quartz/utils/StringKeyDirtyFlagMap.java
```

* /quartz-1-8-6-sources-1-jar/org/quartz/listeners/SchedulerListenerSupport.java

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* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/FiredTriggerRecord.java

* /quartz-1-8-6-sources-1-jar/org/quartz/CronTrigger.java

* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DB2v6Delegate.java

* /quartz-1-8-6-sources-1-jar/org/quartz/ee/jta/UserTransactionHelper.java

*

/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/Semaphore.java

* /quartz-1-8-6-sources-1-jar/org/quartz/utils/DirtyFlagMap.java

* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DB2v6Delegate.java

* /quartz-1-8-6-sources-1-jar/org/quartz/spi/TimeBroker.java

* /quartz-1-8-6-sources-1-jar/org/quartz/Calendar.java

* /quartz-1-8-6-sources-1-jar/org/quartz/jobs/FileScanJob.java

* /quartz-1-8-6-sources-1-jar/org/quartz/Scheduler.java

* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/LockException.java

* /quartz-1-8-6-sources-1-jar/org/quartz/simpl/ZeroSizeThreadPool.java

* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/NoSuchDelegateException.java

* /quartz-1-8-6-sources-1-jar/org/quartz/simpl/RAMJobStore.java

* /quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleTimeBroker.java

* /quartz-1-8-6-sources-1-jar/org/quartz/simpl>LoadingLoaderClassLoadHelper.java

* /quartz-1-8-6-sources-1-jar/org/quartz/DateIntervalTrigger.java

* /quartz-1-8-6-sources-1-jar/org/quartz/Trigger.java

*

/quartz-1-8-6-sources-1-jar/org/quartz/Job.java

* /quartz-1-8-6-sources-1-jar/org/quartz/core/RemotableQuartzScheduler.java

* /quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleClassLoadHelper.java

* /quartz-1-8-6-sources-1-jar/org/quartz/SchedulerException.java

* /quartz-1-8-6-sources-1-jar/org/quartz/xml/ValidationException.java

* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/StdJDBCDelegate.java

- * /quartz-1-8-6-sources-1-jar/org/quartz/JobPersistenceException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/SchedulerListener.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/core/JobRunShellFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/TriggerStatus.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/JmsHelper.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/SchedulerConfigException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/spi/InstanceIdGenerator.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/RemoteScheduler.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/spi/TriggerFiredBundle.java
- *
- /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/CloudscapeDelegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jmx/JMXInvokerJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/UnableToInterruptJobException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/Util.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleInstanceIdGenerator.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/StdScheduler.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/SchedulerRepository.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/MSSQLDelegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/SimpleSemaphore.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/InvalidConfigurationException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/spi/SchedulerPlugin.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/PropertiesParser.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleJobFactory.java
- *
- /quartz-1-8-6-sources-1-jar/org/quartz/utils/Key.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/InitThreadContextClassLoaderHelper.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/StdJobRunShellFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/core/QuartzSchedulerThread.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/NativeJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/DBConnectionManager.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/TriggerListener.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/FileScanListener.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DB2v7Delegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/JobListener.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/spi/ClassLoaderHelper.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DBSemaphore.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/CascadingClassLoaderHelper.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/JobExecutionContext.java
- *
- /quartz-1-8-6-sources-1-jar/org/quartz/ObjectAlreadyExistsException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/JNDIConnectionProvider.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/JmsJobException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/TriggerUtils.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/JTANonClusteredSemaphore.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/helpers/VersionPrinter.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/JmsMessageFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/AnnualCalendar.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/JobDetail.java

- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/JobStoreCMT.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleThreadPool.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/JobStoreSupport.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/utils/ConnectionProvider.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/NthIncludedDayTrigger.java
- *
- /quartz-1-8-6-sources-1-jar/org/quartz/spi/JobFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/plugins/history/LoggingJobHistoryPlugin.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/ee/jta/JTAJobRunShell.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/RemoteMBeanScheduler.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DB2v8Delegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/InterruptableJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/SchedulerStateRecord.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/mail/SendMailJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/HostnameInstanceIdGenerator.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/PointbaseDelegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/ee/jta/JTAJobRunShellFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/core/QuartzScheduler.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/PropertySettingJobFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/QuartzServer.java
- *
- /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/StdJDBCConstants.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/StatefulJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/core/QuartzSchedulerResources.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/HSQldbDelegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/HolidayCalendar.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/core/SchedulerSignalerImpl.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/ejb/EJBInvokerJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DriverDelegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/SchedulerFactory.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/PostgreSQLDelegate.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/core/SchedulingContext.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/JobDataMap.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/spi/SchedulerSignaler.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/SchedulerContext.java
- *
- /quartz-1-8-6-sources-1-jar/org/quartz/SchedulerMetaData.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/plugins/history/LoggingTriggerHistoryPlugin.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/JobExecutionException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/JobStoreTX.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/plugins/management/ShutdownHookPlugin.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/SendQueueMessageJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/StdRowLockSemaphore.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/Constants.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/jobs/NoOpJob.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/CriticalSchedulerException.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/SimpleTrigger.java
- * /quartz-1-8-6-sources-1-jar/org/quartz/simpl/ThreadContextClassLoaderHelper.java

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```
* /quartz-1-8-6-sources-1-jar/org/quartz/listeners/FilterAndBroadcastTriggerListener.java
* /quartz-1-8-6-sources-1-jar/org/quartz/listeners/FilterAndBroadcastJobListener.java
* /quartz-1-8-6-sources-1-jar/org/quartz/listeners/JobChainingJobListener.java
* /quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/UpdateLockRowSemaphore.java
```

1.380 jetty-continuation 9.3.27.v20190418

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```
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationFilter.java
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/Continuation.java
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/package-info.java
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
*
/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/FauxContinuation.java
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationSupport.java
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1.381 spring-expression 4.3.19.RELEASE

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* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/IntLiteral.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelParseException.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ParseException.java
*
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/FloatLiteral.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ExpressionException.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/TokenKind.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/EvaluationException.java

* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpNE.java

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jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java

* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/InternalParseException.java

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```

* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpModulus.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpDivide.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Selection.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpMinus.java
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```

* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/ValueRef.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/SpelEvaluationException.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/CodeFlow.java

```

```

* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Operator.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelMessage.java
*
/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/TypeReference.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpEQ.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Elvis.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/standard/SpelExpression.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/MethodReference.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpPlus.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/Tokenizer.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/BeanResolver.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/TypeCode.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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```
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jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpInc.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/common/CompositeStringExpression.java
*
/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Projection.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpAnd.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpDec.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/OperatorOverloader.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/SpelCompiler.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/common/LiteralExpression.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/AccessException.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Ternary.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ExpressionState.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/BeanReference.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/Expression.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /spring-expression-4-3-19-release-sources-2-
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* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ConstructorExecutor.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ParserContext.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/TypeComparator.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/MethodFilter.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/MethodResolver.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ConstructorResolver.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/Operation.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/common/TemplateParserContext.java
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jar/org/springframework/expression/spel/support/StandardTypeComparator.java
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* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpGT.java
*

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/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Assign.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorPower.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/InlineList.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpOr.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Literal.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpGE.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpLE.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Identifier.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/StringLiteral.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/Token.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpLT.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelCompilerMode.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/common/ExpressionUtils.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelNode.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
*
/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/VariableReference.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorNot.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/InlineMap.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/CompiledExpression.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/AstUtils.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/TypedValue.java
* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/RealLiteral.java

```

1.382 spring-amqp 1.2.0.RELEASE

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* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/DefaultJavaTypeMapper.java
*
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/DefaultJackson2JavaTypeMapper.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/Jackson2JavaTypeMapper.java
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- * /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/FederatedExchange.java
- * /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/SimpleMessageConverter.java

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/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/AbstractExchange.java

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- * /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/ExchangeTypes.java
- * /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpRejectAndDontRequeueException.java

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/**

* Special exception for listener implementations that want to signal that the current batch of messages should be

* acknowledged immediately (i.e. as soon as possible) without rollback, and without consuming any more messages.

*

* @author Dave Syer

*

*/

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jar/org/springframework/amqp/support/converter/SerializerMessageConverter.java

* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/AcknowledgeMode.java

*

/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/Address.java

* /spring-amqp-1-2-0-release-sources-2-

jar/org/springframework/amqp/support/converter/MessageConversionException.java

* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpConnectException.java

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* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/Message.java

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jar/org/springframework/amqp/support/converter/AbstractMessageConverter.java

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* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/AnonymousQueue.java
*
/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/DirectExchange.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/TopicExchange.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/FanoutExchange.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/UniquelyNamedQueue.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/HeadersExchange.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/UncategorizedAmqpException.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessageListener.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessagePostProcessor.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessageDeliveryMode.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpException.java
* /spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpIOException.java
*
/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpIllegalStateException.java

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1.383 spring-orm 4.3.19.RELEASE

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- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/DefaultJdoDialect.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateOptimisticLockingFailureException.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewInterceptor.java
- *
- /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoDialect.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalRegionFactoryProxy.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/TransactionAwarePersistenceManagerFactoryProxy.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/LocalPersistenceManagerFactoryBean.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateOptimisticLockingFailureException.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/PersistenceManagerFactoryUtils.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/persistenceunit/SpringPersistenceUnitInfo.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/support/SpringPersistenceManagerProxyBean.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/FilterDefinitionFactoryBean.java

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* /spring-orm-4-3-19-release-sources-4-

jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/AbstractEntityManagerFactoryBean.java

* /spring-orm-4-3-19-release-sources-4-

jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaVendorAdapter.java

*

/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/ExtendedEntityManagerCreator.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/AbstractJpaVendorAdapter.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/HibernateJpaVendorAdapter.java

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* /spring-orm-4-3-19-release-sources-4-

jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateTransactionManager.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaSystemException.java

*

/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateCallback.java

* /spring-orm-4-3-19-release-sources-4-

jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java

* /spring-orm-4-3-19-release-sources-4-

jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateCallback.java

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- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/LocalContainerEntityManagerFactoryBean.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/HibernateJpaSessionFactoryBean.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerFactoryUtils.java
- *
- /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaVendorAdapter.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/support/OpenSessionInViewInterceptor.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/ObjectOptimisticLockingFailureException.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/ObjectRetrievalFailureException.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/HibernateJpaDialect.java
- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/support/SharedEntityManagerBean.java

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- * /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SessionFactoryUtils.java

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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoTransactionManager.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/persistenceunit/SmartPersistenceUnitInfo.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateOperations.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SessionFactoryUtils.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringSessionContext.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/OpenSessionInterceptor.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/vendor/SpringHibernateEjbPersistenceProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/LocalSessionFactoryBean.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/ConfigurableJtaPlatform.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/LocalEntityManagerFactoryBean.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/HibernateDaoSupport.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerFactoryAccessor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/OpenJpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/support/HibernateDaoSupport.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/OpenSessionInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/DefaultJpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/OpenJpaVendorAdapter.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/annotation/AnnotationSessionFactoryBean.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaTransactionManager.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateOperations.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/OpenSessionInViewInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateAccessor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateTransactionManager.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/LocalSessionFactoryBuilder.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringFlushSynchronization.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalSessionFactoryBean.java
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*/
/**
* Create a transactional EntityManager proxy for the given EntityManagerFactory.
* @param emf the EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
* {@code createEntityManager} call (may be {@code null})
* @param entityManagerInterfaces
the interfaces to be implemented by the
* EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
*/

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Found in path(s):

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java
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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateTemplate.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/SpringHibernateJpaPersistenceProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewFilter.java
*
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/AsyncRequestInterceptor.java
* /spring-orm-4-3-19-release-sources-4-

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jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/support/AsyncRequestInterceptor.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/OpenSessionInViewFilter.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateTemplate.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/AsyncRequestInterceptor.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/OpenSessionInViewFilter.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringSessionSynchronization.java
*
/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewFilter.java
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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerHolder.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/PersistenceManagerHolder.java
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jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitPostProcessor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoSystemException.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/IdTransferringMergeEventListener.java
*
/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/TransactionAwareDataSourceConnectionProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateQueryException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/BlobByteArrayType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/BlobStringType.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/JpaOptimisticLockingFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringTransactionFactory.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoObjectRetrievalFailureException.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/LocalTransactionManagerLookup.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/LocalJtaDataSourceConnectionProvider.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringSessionSynchronization.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/AbstractSessionFactoryBean.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SessionHolder.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitManager.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/AbstractLobType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateExceptionTranslator.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringSessionContext.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/LocalDataSourceConnectionProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/BlobSerializableType.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/ScopedBeanInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaObjectRetrievalFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SessionHolder.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/HibernateObjectRetrievalFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoUsageException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateExceptionTranslator.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/HibernateObjectRetrievalFailureException.java
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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/TypeDefinitionBean.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/Database.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateJdbcException.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jdo/JdoOptimisticLockingFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateQueryException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateJdbcException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateSystemException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateSystemException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerProxy.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoResourceFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/ClobStringType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringJtaSessionContext.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerFactoryInfo.java

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jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
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- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
- *
- /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameter.java
- *
- /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/JdbcUtils.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
- * /spring-jdbc-4-3-19-release-sources-3-

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jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-4-3-19-release-sources-3-
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* /spring-jdbc-4-3-19-release-sources-3-
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jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java

```

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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlResultSet.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/JdbcAccessor.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
*

```

```

/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
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*/
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException DataAccessException}
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

```

Found in path(s):

```

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLExceptionTranslator.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):

/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ParameterMapper.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>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.
 * 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):

- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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```

Found in path(s):

- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlResultSetExtractor.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
- *
- /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLExceptionCodes.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.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
*/

```

Found in path(s):

```

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobHandler.java
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jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/StoredProcedure.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java

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jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcOperations.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BatchUpdateUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/RdbmsOperation.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowMapper.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
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* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ParameterDisposer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.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).
 */

```

Found in path(s):

```

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/package-info.java

```

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```

Found in path(s):

```
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.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>: Needs to be invoked after the involved
```

PreparedStatement have

- * been executed or the affected O/R mapping sessions have been flushed.
 - * Otherwise, the database resources for the temporary BLOBs might stay allocated.
- */

Found in path(s):

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreator.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
*
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/MappingSqlQuery.java
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Found in path(s):

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
*
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
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- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/LobRetrievalFailureException.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
- *
- /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/support/nativejdbc/Jdbc4NativeJdbcExtractor.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
- *
- /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/MetaDataAccessException.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/SQLWarningException.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowCallbackHandler.java
- * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreatorUtils.java
- *
- /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
- * /spring-jdbc-4-3-19-release-sources-3-
- jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlReturnType.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/CallableStatementCallback.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractorAdapter.java
 *
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/KeyHolder.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SmartDataSource.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/JBossNativeJdbcExtractor.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SqlValue.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java
 *
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/OracleJdbc4NativeJdbcExtractor.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/UncategorizedSQLException.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementSetter.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlObjectMappingHandler.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlTypeValue.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/SqlQuery.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ResultSetExtractor.java
 *
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlProvider.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/SqlCall.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/SqlFunction.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/BadSqlGrammarException.java
 * /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/BadSqlGrammarException.java

```

jar/org/springframework/jdbc/support/nativejdbc/C3P0NativeJdbcExtractor.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/SqlUpdate.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/XMLBinaryStreamProvider.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/lob/JtaLobCreatorSynchronization.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java

```

1.385 spring-binding 2.5.1.RELEASE

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- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/MessageResolver.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/PropertyNotFoundException.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/AbstractGetValueExpression.java
- *
- /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/DefaultELResolver.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/FormattedStringToNumber.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/format/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/SpringConvertingConverterAdapter.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/beanwrapper/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/CollectionAddingExpression.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/package-info.java
- *
- /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/DefaultMappingContext.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/validation/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/MessageContextErrors.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpression.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/results/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/NullParserContext.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ParserContext.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/package-info.java
- *
- /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/MapAccessor.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/DefaultMessageContext.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/TwoWayCapableConversionExecutor.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/MessageBuilder.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/package-info.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/RuntimeBindingConversionExecutor.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/ELExpressionParser.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ValueCoercionException.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/results/AbstractMappingResult.java

```

*
/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/service/SpringBindingConverterAdapter.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/ELExpression.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/el/MapAdaptableELResolver.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/package-info.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/package-info.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/StringKeyedMapAdapter.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/SharedMap.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToDate.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/package-info.java
*
/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/package-info.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodInvoker.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/package-info.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/support/FluentParserContext.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/support/LiteralExpression.java
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jar/org/springframework/binding/convert/converters/StringToBigDecimal.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToInteger.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodKey.java

*

/spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/converters/ReverseConverter.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/expression/support/CompositeStringExpression.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToByte.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/MapAdaptable.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionService.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/converters/PropertyEditorConverter.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/service/StaticConversionExecutor.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/ConversionExecutorNotFoundException.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/Parameter.java

*

/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToEnum.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/Parameters.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/ConversionExecutionException.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/expression/support/StaticExpression.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToClass.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionExecutor.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/EvaluationException.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToLocale.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/Converter.java

*

/spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/converters/ArrayToCollection.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToFloat.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/converters/StringToBigInteger.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/converters/ObjectToCollection.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToObject.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToShort.java

* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToLong.java

* /spring-binding-2-5-1-release-sources-2-

jar/org/springframework/binding/convert/converters/TwoWayConverter.java

```

* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/converters/StringToCharacter.java
*
/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/DefaultMapper.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/method/InvalidMethodKeyException.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/ObjectToArray.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodSignature.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToDouble.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/service/GenericConversionService.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/Expression.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/converters/StringToBoolean.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/ArrayToArray.java
*
/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/NoOpConverter.java
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* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/format/IntegerNumberFormatFactory.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/MappingResultsCriteria.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/results/RequiredError.java
*
/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpressionParser.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/MessageCriteria.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/message/StateManageableMessageContext.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ExpressionVariable.java
* /spring-binding-2-5-1-release-sources-2-

```



```

jar/org/springframework/binding/format/DefaultNumberFormatFactory.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/format/AbstractNumberFormatFactory.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/format/CurrencyNumberFormatFactory.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/DefaultMessageResolver.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/DefaultELContext.java
*
/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/results/SourceAccessError.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/mapping/results/TypeConversionError.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/MessageContext.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/results/TargetAccessError.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/Severity.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/results/Success.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/el/DefaultELContextFactory.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/format/PercentNumberFormatFactory.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/ELContextFactory.java
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* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/support/SimpleParserContext.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/spel/SpringELExpression.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/mapping/impl/DefaultMappingResults.java
*
/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/spel/SpringELExpressionParser.java

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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/MappingResult.java
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- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/spel/SimpleEvaluationContextFactory.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/spel/StandardEvaluationContextFactory.java

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- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionException.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/InvalidFormatException.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodInvocationException.java
- *
- /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/DefaultMapping.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ParserException.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/Mapping.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/Mapper.java
- * /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ExpressionParser.java

* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/convert/service/DefaultConversionService.java

1.386 spring-aspects 4.3.19.RELEASE

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* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
*
/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
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jar/org/springframework/scheduling/aspectj/AnnotationAsyncExecutionAspect.aj
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jar/org/springframework/scheduling/aspectj/AbstractAsyncExecutionAspect.aj
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jar/org/springframework/context/annotation/aspectj/EnableSpringConfigured.java
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java
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* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/GenericInterfaceDrivenDependencyInjectionAspect.aj
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj
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jar/org/springframework/transaction/aspectj/AnnotationTransactionAspect.aj
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/AnyThrow.java
* /spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/transaction/aspectj/JtaAnnotationTransactionAspect.aj
*
/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/context/annotation/aspectj/SpringConfiguredConfiguration.java

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jar/org/springframework/cache/aspectj/AspectJCacheConfiguration.java
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/AspectJCacheConfiguration.java
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1.387 spring-context 4.3.19.RELEASE

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jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteAccessException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
```

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jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/FormatterRegistry.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationResult.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/config/CacheManagementConfigUtils.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocation.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/CompositeCacheManager.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/ValidationUtils.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/PropertySources.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/assembly/MethodExclusionMBeanInfoAssembler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/DefaultKeyGenerator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/AnnotationFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/annotation/Validated.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
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* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/BasicOperation.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/CacheManager.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/BeanFactoryAccessor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
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Found in path(s):

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Lazy.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ProfileCondition.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ImportSelector.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/SchedulingTaskExecutor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/jboss/JBossMCAdapter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Condition.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/KeyGenerator.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/i18n/LocaleContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Description.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/i18n/SimpleLocaleContext.java
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/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/SimpleTriggerContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/ResourceScriptSource.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/DeferredImportSelector.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/ModelMap.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/IntervalTask.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
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Found in path(s):

- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Bean.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ContextAnnotationAutowiredCandidateResolver.java
- *
- /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/jruby/JRubyScriptFactory.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventPublicationInterceptor.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/DefaultMessageCodesResolver.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/NumberStyleFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
- *
- /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/websphere/WebSphereClassLoaderAdapter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/jboss/JBossMCTranslatorAdapter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/CurrencyStyleFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/NullValue.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
- *
- /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/jruby/JRubyScriptUtils.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/NoOpCache.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/jboss/JBossModulesAdapter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/EnableCaching.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/AnnotatedElementKey.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/DateFormatter.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/stereotype/Service.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/CronSequenceGenerator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RemoteInvocationSerializingExporter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/NotificationListenerHolder.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/stereotype/Controller.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Configuration.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventExpressionEvaluator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/MessageSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/TypeMismatchNamingException.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/MBeanClientInterceptor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/MessageSourceAccessor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/EnvironmentAware.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/MetricType.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/websphere/WebSphereLoadTimeWeaver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/PeriodicTrigger.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Profile.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/config/CacheNamespaceHandler.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/annotation/NumberFormat.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ApplicationEventMulticaster.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteExporter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/ApplicationListenerDetector.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/

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jar/org/springframework/scheduling/annotation/AsyncAnnotationAdvisor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/SimpleThreadScope.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/config/CacheAdviceParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/weblogic/WebLogicClassLoaderAdapter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/AbstractApplicationContext.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/annotation/DateTimeFormat.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/MapAccessor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/stereotype/Repository.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/SimpleCacheManager.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/stereotype/Component.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/MessageSourceSupport.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConditionContext.java
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* /spring-context-4-3-19-release-sources-3-

jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java

* /spring-context-4-3-19-release-sources-3-

jar/org/springframework/context/annotation/AdviceModeImportSelector.java

* /spring-context-4-3-19-release-sources-3-

jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java

*

/spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/AbstractErrors.java

* /spring-context-4-3-19-release-sources-3-

jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java

* /spring-context-4-3-19-release-sources-3-

jar/org/springframework/cache/support/AbstractValueAdaptingCache.java

* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/DefaultLifecycleProcessor.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/BeanFactoryResolver.java

* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-

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*

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* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/ObjectError.java

* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/CacheAnnotationParser.java

* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/DirectFieldBindingResult.java

*

/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/Lifecycle.java

* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/PropertySource.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/MBeanExporter.java

* /spring-context-4-3-19-release-sources-3-


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jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
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* /spring-context-4-3-19-release-sources-3-
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* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/BeanPropertyBindingResult.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ComponentScanBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/ejb/access/AbstractSlsbInvokerInterceptor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/AdviceMode.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/DataBinder.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/CachingConfigurer.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/FieldError.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/JmxUtils.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/BindingResult.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Scope.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiServiceExporter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ConfigurableApplicationContext.java

```

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* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheResolver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/Scheduled.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/GenericApplicationListener.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/event/EventListenerMethodProcessor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/EnableAsync.java
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```

```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* {@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
*/

```

Found in path(s):

```

* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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```

```

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* 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.
*/
/**
* 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):

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Conditional.java

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```

Found in path(s):

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/config/LangNamespaceUtils.java
 *

```

/spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/IndiAccessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/SpringModelMBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/ejb/config/AbstractIndiLocatingBeanDefinitionParser.java
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*/

```

Found in path(s):

```

* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/context/ThemeSource.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/access/ContextSingletonBeanFactoryLocator.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/Parser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/JmxException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationUtils.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/MessageSourceResolvable.java

```

```

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ResourceLoaderAware.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/format/Formatter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/SchedulingException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/NameMatchCacheOperationSource.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/SchedulingAwareRunnable.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/Phased.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/AbstractBindingResult.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/Errors.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/Task.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/SimpleValueWrapper.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/SmartValidator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteAccessor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/ui/context/support/DelegatingThemeSource.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/DelegatingMessageSource.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/access/DefaultLocatorFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java

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* /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/ApplicationObjectSupport.java
 *
 /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiTemplateEditor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java
 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/ScriptSource.java
 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/DependsOn.java
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/Validator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/NoSuchMessageException.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationContextAware.java
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ScopeMetadata.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ContextStoppedEvent.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ContextClosedEvent.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/Model.java
 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiLookupFailureException.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/HierarchicalMessageSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/EnableMBeanExport.java
 *
 /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/context/support/AbstractXmlApplicationContext.java

* /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheOperationSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemotingSupport.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/NotificationListenerBean.java
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 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/TriggerContext.java
 *
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/context/HierarchicalThemeSource.java
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 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/Trigger.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/soap/SoapFaultException.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/naming/SelfNaming.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/InvocationFailureException.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/StaticScriptSource.java
 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
 *
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 jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/ObjectNameManager.java
 * /spring-context-4-3-19-release-sources-3-
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 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteLookupFailureException.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiTemplate.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/context/support/SimpleTheme.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/BindException.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ejb/access/EjbAccessException.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/BindingResultUtils.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheInterceptor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/LiveBeansViewMBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/MessageCodesResolver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedResource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/context/Theme.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/access/ContextJndiBeanFactoryLocator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ApplicationContextEvent.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Jsrf330ScopeMetadataResolver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiObjectTargetSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/access/ContextBeanFactoryReference.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiObjectLocator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
 *

```

/spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/JndiRmiServiceExporter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/config/ContextNamespaceHandler.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteProxyFailureException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/AbstractNumberFormatter.java
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Found in path(s):

```

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedOperation.java
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- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/support/BindingAwareModelMap.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteTimeoutException.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
- *
- /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/StandardScriptEvalException.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/DurationFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ComponentScans.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ScheduledExecutorFactoryBean.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/StandardScriptEvaluator.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
- *
- /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventExpressionRootObject.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/ScriptEvaluator.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/config/LangNamespaceHandler.java
- *
- /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/ScriptCompilationException.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/PeriodFormatter.java
- * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/PayloadApplicationEvent.java
- * /spring-context-4-3-19-release-sources-3-

jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationEvent.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/NoOpCacheManager.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/SourceFilteringListener.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/CurrencyFormatter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/access/ConnectorDelegate.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/NumberFormatter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/CacheConfig.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Role.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedResource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/PercentStyleFormatter.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/AbstractCacheManager.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/format/datetime/standard/DateTimeConverters.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/ExtendedModelMap.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationEventPublisher.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ImportResource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/IndiObjectFactoryBean.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationListener.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventListenerFactory.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/CronTrigger.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/StandardScriptUtils.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/PercentFormatter.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/format/datetime/standard/DurationFormatter.java
 * /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/format/support/DefaultFormattingConversionService.java
 *
 /spring-context-4-3-19-release-sources-3-
 jar/org/springframework/format/datetime/standard/YearMonthFormatter.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Import.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/Schedules.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/EmbeddedValueResolverAware.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/Caching.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ParserStrategyUtils.java
```

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/support/StandardScriptFactory.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/support/FormattingConversionService.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/LiveBeansView.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ImportRegistry.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/InstantFormatter.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheableOperation.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/CacheEvict.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncResult.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/CachedExpressionEvaluator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/Async.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Primary.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/i18n/LocaleContextHolder.java
 *
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/SimpleKey.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiPropertySource.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClass.java
 * /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/Cacheable.java
 *

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/spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventListener.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/Cache.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/AbstractPropertyBindingResult.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/standard/Jsrf310DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/expression/MethodBasedEvaluationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/config/ScheduledTask.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/GenericApplicationContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ComponentScan.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/MBeanExportOperations.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/LifecycleProcessor.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ImportAware.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/BeanMethod.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /spring-context-4-3-19-release-sources-3-
```


jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/MessageSourceAware.java
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* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiLocatorSupport.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
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*/

Found in path(s):

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/MapBindingResult.java

1.388 spring-context-support

4.3.19.RELEASE

1.388.1 Available under license :

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```

Found in path(s):

```
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/KeyGeneratorAdapter.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/config/ProxyJCacheConfiguration.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheResolverAdapter.java
*
/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/SimpleMailMessage.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheCache.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/JCacheCache.java
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```

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Found in path(s):

- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
- *
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/caffeine/CaffeineCache.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java

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Found in path(s):

* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
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Found in path(s):

* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java
*
/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/JCacheCacheManager.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailMessage.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/JCacheAspectSupport.java
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- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CachePutInterceptor.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
- *
- /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/freemarker/SpringTemplateLoader.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/JCacheInterceptor.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/JCacheOperationSource.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailSender.java
- *
- /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheMethodDetails.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
- * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/JavaMailSender.java
- * /spring-context-support-4-3-19-release-sources-2-

```

jar/org/springframework/cache/jcache/interceptor/BeanFactoryJCacheOperationSourceAdvisor.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
*
/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/MimeMailMessage.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllOperation.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
*
/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/QuartzJobBean.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/AbstractKeyCacheInterceptor.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/config/JCacheConfigurer.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/guava/GuavaCacheManager.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/JCacheManagerFactoryBean.java
*
/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/JCacheOperationSourcePointcut.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
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* /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/scheduling/commonj/DelegatingWork.java
 * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailParseException.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
 *
 /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailSendException.java
 * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailPreparationException.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
 * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailAuthenticationException.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/mail/javamail/MimeMessagePreparator.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/mail/javamail/SmartMimeMessage.java
 * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/DelegatingJob.java
 *
 /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
 * /spring-context-support-4-3-19-release-sources-2-
 jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
 * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/SpringResourceLoader.java
 * /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailException.java
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```

* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/guava/GuavaCache.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java
*
/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
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```


Found in path(s):

```
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineFactory.java
*
/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
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#####

#####

#

Defaults for the Java Activation Framework (revised).

Modified extensions registered

in this file:

text/plain java c c++ cpp pl cc h

image/png png

#

#####

text/html html htm HTML HTM

text/plain txt text TXT TEXT java c c++ cpp pl cc h

image/gif gif GIF

image/ief ief

image/jpeg jpeg jpg jpe JPG

image/tiff tiff tif

image/x-xwindowdump xwd

application/postscript ai eps ps

application/rtf rtf

application/x-tex tex

application/x-texinfo texinfo texi

application/x-troff t tr roff

audio/basic au
audio/midi midi mid
audio/x-aifc aifc
audio/x-aiff aif aiff
audio/x-mpeg mpeg mpg
audio/x-wav wav
video/mpeg mpeg mpg mpe
video/quicktime qt mov
video/x-msvideo avi

#####

#

Additional file types adapted from

<http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html>

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#

#####

#

TEXT TYPES

text/x-speech talk

text/css css

text/csv csv

IMAGE TYPES

X-Windows bitmap (b/w)

image/x-xbitmap xbm

X-Windows 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-xwindowdump xwd

Macintosh PICT format

image/x-pict pict

PPM (UNIX PPM package)

image/x-portable-pixmap ppm

PGM (UNIX PPM package)

image/x-portable-graymap pgm

PBM (UNIX PPM package)

```

image/x-portable-bitmap  pbm
# PNM (UNIX PPM package)
image/x-portable-anymap  pnm
# Microsoft Windows bitmap
image/x-ms-bmp  bmp
# CMU raster
image/x-cmu-raster  ras
# Kodak Photo-CD
image/x-photo-cd  pcd
# Computer Graphics Metafile
image/cgm  cgm
# CALS Type 1 or 2
image/x-cals  mil cal
# Fractal Image Format (Iterated Systems)
image/fif  fif
#
QuickSilver active image (Micrografx)
image/x-mgx-dsf  dsf
# CMX vector image (Corel)
image/x-cmx  cmx
# Wavelet-compressed (Summus)
image/wavelet  wi
# AutoCad Drawing (SoftSource)
image/vnd.dwg  dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf  dxf
# Simple Vector Format (SoftSource)
image/vnd.svf  svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic""audio - 8-bit u-law PCM"
audio/basic  au snd
# Macintosh audio format (AIpple)
audio/x-aiff  aif aiff aifc
# Microsoft audio
audio/x-wav  wav
# MPEG audio
audio/x-mpeg  mpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2  mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeech  es
# Toolvox speech audio (Voxware)
audio/voxware  vox
# RapidTransit compressed audio (Fast Man)
application/fastman  lcc
# Realaudio (Progressive Networks)

```

application/x-pn-realaudio ra ram
MIDI music data
x-music/x-midi mmid
Koan music data (SSeyo)
application/vnd.koan skp
Speech synthesis data (MVP Solutions)
text/x-speech talk

#

VIDEO TYPES

MPEG video
video/mpeg mpeg mpg mpe
MPEG-2 video
video/mpeg-2 mpv2 mp2v
Macintosh Quicktime
video/quicktime qt mov
Microsoft video
video/x-msvideo avi
SGI Movie format
video/x-sgi-movie movie
VDOLive streaming video (VDOnet)
video/vdo vdo
Vivo streaming video (Vivo software)
video/vnd.vivo viv

SPECIAL HTTP/WEB APPLICATION TYPES

Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk ice

TEXT-RELATED

PostScript
application/postscript ai eps ps
Microsoft Rich Text Format
application/rtf rtf
Adobe Acrobat PDF
application/pdf pdf
Maker Interchange Format (FrameMaker)
application/vnd.mif mif
Troff document
application/x-troff t tr roff
Troff document with MAN macros
application/x-troff-man man
Troff document with ME macros

application/x-troff-me me
Troff document with MS macros
application/x-troff-ms ms

LaTeX document
application/x-latex latex
Tex/LaTeX document
application/x-tex tex
GNU TexInfo document
application/x-texinfo texinfo texi
TeX dvi format
application/x-dvi dvi
MS word document
application/msword doc DOC
Office Document Architecture
application/oda oda
Envoy Document
application/envoy evy

ARCHIVE/COMPRESSED ARCHIVES

Gnu tar format
application/x-gtar gtar
4.3BSD tar format
application/x-tar tar
POSIX tar format
application/x-ustar ustar
Old CPIO format
application/x-bcpio bcpio
POSIX CPIO format
application/x-cpio cpio
UNIX sh shell archive
application/x-shar shar
DOS/PC - Pkzipped archive
application/zip zip
Macintosh Binhexed archive
application/mac-binhex40 hqx
Macintosh Stuffit Archive
application/x-stuffit sit sea
Fractal Image Format
application/fractals fif
"Binary UUencoded"
application/octet-stream bin uu
PC executable
application/octet-stream exe
"WAIS ""sources"""
application/x-wais-source src

```

wsrc
# NCSA HDF data format
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript js ls mocha
# UNIX bourne shell program
application/x-sh sh
# UNIX c-shell program
application/x-csh csh
# Perl program
application/x-perl pl
# Tcl (Tool Control Language) program
application/x-tcl tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash spl
# mBED multimedia data (mBED)
application/mbedlet mbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia rad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint ppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asap asp
# Astound Web Player multimedia data (GoldDisk)
application/astound asn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript axs
# OLE Object (Microsoft/NCompass)
application/x-oleobject ods
# OpenScape
OLE/OCX objects (Business@Web)
x-form/x-openscape opp
# Visual Basic objects (Amara)
application/x-webbasic wba
# Specialized data entry forms (Alpha Software)
application/x-alpha-form frm

```

client-server objects (Wayfarer Communications)

x-script/x-wfxclient wfx

GENERAL APPLICATIONS

Undefined binary data (often executable progs)

application/octet-stream exe com

Pointcast news data (Pointcast)

application/x-pcn pcn

Excel spreadsheet (Microsoft)

application/vnd.ms-excel xls

PowerPoint (Microsoft)

application/vnd.ms-powerpoint ppt

Microsoft Project (Microsoft)

application/vnd.ms-project mpp

SourceView document (Dataware Electronics)

application/vnd.svd svd

Net Install - software install (20/20 Software)

application/x-net-install ins

Carbon Copy - remote control/access (Microcom)

application/ccv ccv

Spreadsheets (Visual Components)

workbook/formulaone vts

2D/3D DATA/VIRTUAL REALITY TYPES

VRML data file

x-world/x-vrml wrl vrml

WIRL -

VRML data (VREAM)

x-world/x-vream vrw

Play3D 3d scene data (Play3D)

application/x-p3d p3d

Viscape Interactive 3d world data (Superscape)

x-world/x-svr svr

WebActive 3d data (Plastic Thought)

x-world/x-wvr wvr

QuickDraw3D scene data (Apple)

x-world/x-3dmf 3dmf

SCIENTIFIC/MATH/CAD TYPES

Mathematica notebook

application/mathematica ma

Computational meshes for numerical simulations

x-model/x-mesh msh

Vis5D 5-dimensional data

application/vis5d v5d

IGES models -- CAD/CAM (CGM) data
application/iges igs
Autocad WHIP vector drawings
drawing/x-dwf dwf

Found in path(s):

* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/mime.types

1.389 spring-web 4.3.19.RELEASE

1.389.1 Available under license :

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Found in path(s):

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/ServletWebRequest.java

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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/SessionStatus.java

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/WebBindingInitializer.java

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Found in path(s):

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/WebDataBinder.java

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/CookieGenerator.java

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java

*
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/LiveBeansViewServlet.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/AsyncHttpAccessor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriTemplate.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/ContentNegotiationManager.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/HttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/StringHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/ResponseEntity.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/EscapedErrors.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/UnsatisfiedServletRequestParameterException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/json/GsonFactoryBean.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriUtils.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/JavaScriptUtils.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/GenericFilterBean.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/RestTemplate.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/DelegatingFilterProxy.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/PathExtensionContentNegotiationStrategy.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/support/AllEncompassingFormHttpMessageConverter.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ExceptionHandlerMethodResolver.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/ResourceHttpMessageConverter.java

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ResponseStatus.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServletServerHttpAsyncRequestControl.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpInvokerServiceExporter.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpRequestFactory.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/commons/CommonsMultipartFile.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/HttpComponentsStreamingClientHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/AbstractHttpInvokerRequestExecutor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/InterceptingAsyncClientHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/AbstractGenericHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/MultipartFile.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/SimpleHttpInvokerServiceExporter.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/CharacterEncodingFilter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpResponse.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/AsyncRestTemplate.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RestController.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/ResponseErrorHandler.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriComponents.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/commons/CommonsFileUploadSupport.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/ContentCachingRequestWrapper.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpComponentsHttpInvokerRequestExecutor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java

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jar/org/springframework/web/accept/AbstractMappingContentNegotiationStrategy.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpStatus.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/NativeWebRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/HandlerMethod.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttp3ClientHttpResponse.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/support/UriComponentsContributor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/ContextLoader.java
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- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/ResponseExtractor.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpRequestFactory.java
- *
- /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/RequestCallback.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/support/RestGatewaySupport.java

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- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianServiceExporter.java
- *
- /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapExporter.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServerHttpResponse.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/InvalidMediaTypeException.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianClientInterceptor.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/ServletContextPropertyUtils.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/AsyncRequestCallback.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapServiceExporter.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/RequestAttributes.java
- *
- /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapProxyFactoryBean.java
- * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/AbstractRefreshableWebApplicationContext.java

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/StandardServletEnvironment.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServerHttpRequest.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/cors/CorsProcessor.java

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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/InterceptingClientHttpRequest.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/commons/CommonsMultipartResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/SessionAttributesHandler.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpHeaders.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/xml/AbstractJaxb2HttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/json/GsonHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/accept/ContentNegotiationManagerFactoryBean.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/accept/MappingMediaTypeFileExtensionResolver.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/ForwardedHeaderFilter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/SimpleBufferingClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/HttpComponentsClientHttpRequestFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/cors/CorsConfiguration.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/SimpleBufferingAsyncClientHttpRequest.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/protobuf/ExtensionRegistryInitializer.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/client/MessageBodyClientHttpResponseWrapper.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriComponentsBuilder.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/xml/AbstractXmlHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/json/MappingJacksonValue.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/CacheControl.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpMethod.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/HttpPutFormContentFilter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/InitBinderDataBinderFactory.java

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*
 /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/remoting/jaxws/SimpleHttpServerJaxWsServiceExporter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttp3ClientHttpRequestFactory.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestMapping.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpOutputMessage.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UrlPathHelper.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/method/support/InvocableHandlerMethod.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
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 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/CrossOrigin.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/PathVariable.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/HtmlCharacterEntityReferences.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ModelFactory.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/RelativeRedirectFilter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/MissingPathVariableException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpRequestInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/AbstractHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpInputMessage.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/DefaultResponseErrorHandler.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/bind/annotation/support/HandlerMethodInvoker.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/ShallowEtagHeaderFilter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestBody.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/context/request/async/WebAsyncManager.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/HierarchicalUriComponents.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/MediaType.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/StreamingHttpOutputMessage.java
 *
 /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/context/support/GroovyWebApplicationContext.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/remoting/httpinvoker/SimpleHttpInvokerRequestExecutor.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-

jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServletServerHttpRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/SimpleClientHttpResponse.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/WebUtils.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/FormHttpMessageConverter.java
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jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java

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Found in path(s):

```
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/AbstractRequestAttributes.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
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Found in path(s):

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/Netty4ClientHttpRequestFactory.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/BasicAuthorizationInterceptor.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/AsyncRestOperations.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/annotation/ApplicationScope.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/PatchMapping.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/jaxws/SimpleJaxWsServiceExporter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriTemplateHandler.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/ServletRequestAttributes.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttp3AsyncClientHttpRequest.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/annotation/SessionScope.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/ParameterContentNegotiationStrategy.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/HttpAccessor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestPart.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestAttribute.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/cors/DefaultCorsProcessor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttp3ClientHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/support/MissingServletRequestPartException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/SimpleStreamingClientHttpRequest.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/AbstractUriTemplateHandler.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/ObjectToStringHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ModelAttribute.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/WebApplicationContextUtils.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpRequestExecution.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/Netty4ClientHttpResponse.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/HtmlUtils.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpInvokerProxyFactoryBean.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/xml/SourceHttpMessageConverter.java
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 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/RestOperations.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/ServletContextResource.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/HttpSessionRequiredException.java

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttpClientHttpRequestFactory.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/HttpServerErrorException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServletServerHttpResponse.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
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 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AsyncClientHttpRequestExecution.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/SpringServletContainerInitializer.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/HeaderContentNegotiationStrategy.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/RequestEntity.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/annotation/RequestScope.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/CorsFilter.java
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 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/PutMapping.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/SimpleStreamingAsyncClientHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpRange.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/TimeoutCallableProcessingInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/DeleteMapping.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/DeferredResult.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/DefaultUriTemplateHandler.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpRequest.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AbstractBufferingAsyncClientHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/support/HandlerMethodReturnValueHandlerComposite.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AsyncClientHttpRequestInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/HttpClientErrorException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/RestClientResponseException.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/SessionAttribute.java

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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/support/MultipartFilter.java
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/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/support/InterceptingAsyncHttpAccessor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttpClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/OkHttpAsyncClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/cors/CorsConfigurationSource.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/FacesRequestAttributes.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/HttpStatusCodeException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AbstractAsyncClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/GetMapping.java
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jar/org/springframework/http/client/InterceptingAsyncClientHttpRequestFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianExporter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/WebRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/json/Jackson2ObjectMapperFactoryBean.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/ControllerAdviceBean.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/PostMapping.java
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* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/async/CallableInterceptorChain.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/HttpMessageConversionException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/MatrixVariable.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/HttpMessageNotReadableException.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/async/DeferredResultInterceptorChain.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/RequestContextFilter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/ContentCachingResponseWrapper.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/MethodArgumentTypeMismatchException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpEntity.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/OncePerRequestFilter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/HttpRequestWrapper.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/OpaqueUriComponents.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/async/NoSupportAsyncWebRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpMessage.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/client/BufferingClientHttpResponseWrapper.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ExceptionHandler.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/MultipartResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/json/GsonBuilderUtils.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/ContextLoaderListener.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestParam.java
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* /spring-web-4-3-19-release-sources-3-
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 *
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 jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestHeader.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/RequestContextListener.java
 * /spring-web-4-3-19-release-sources-3-
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 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/FacesWebRequest.java
 * /spring-web-4-3-19-release-sources-3-
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 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/ProxyFactoryBean.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/HandlerMethodSelector.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/context/request/async/CallableProcessingInterceptorAdapter.java
 * /spring-web-4-3-19-release-sources-3-
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 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptorAdapter.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/cors/CorsUtils.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/method/annotation/MethodArgumentConversionNotSupportedException.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/http/converter/json/MappingJacksonInputMessage.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
 *
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/SessionAttributes.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/HttpSessionMutexListener.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/http/converter/HttpMessageNotWritableException.java
 * /spring-web-4-3-19-release-sources-3-
 jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/CookieValue.java
 * /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RequestMethod.java

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```
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/SimpleHessianServiceExporter.jar
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/HttpRequestHandler.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AsyncClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /spring-web-4-3-19-release-sources-3-
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* /spring-web-4-3-19-release-sources-3-
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* /spring-web-4-3-19-release-sources-3-
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AsyncClientHttpRequestFactory.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/jaxws/AbstractJaxWsServiceExporter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/WebAsyncTask.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AbstractClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/caucho/SimpleBurlapServiceExporter.jar
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ResponseBody.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/jsf/FacesContextUtils.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
```



```

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/Log4jWebConfigurer.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/MapMethodProcessor.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletContextPropertySource.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletConfigPropertySource.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/jaxws/LocalJaxWsServiceFactory.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/ExpressionValueMethodArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/XmlWebApplicationContext.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/CompositeFilter.java
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```

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```

Found in path(s):

```

* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/MediaTypeEditor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/Log4jConfigListener.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/MultipartException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/WebDataBinderFactory.java
*

```

```

/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/ServletContextScope.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/jsf/DelegatingNavigationHandlerProxy.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/Log4jNestedDiagnosticContextInterceptor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ValueConstants.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/WebAppRootListener.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/bind/annotation/support/HandlerMethodInvocationException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/WebRequestInterceptor.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/ServletConfigAware.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/ContextCleanupListener.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/RequestContextHolder.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/WebApplicationInitializer.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/jaxws/JaxWsPortProxyFactoryBean.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/RequestScope.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/RequestHandledEvent.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/RestClientException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/SessionScope.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/NestedServletException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/SessionAttributeStore.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/bind/MethodArgumentNotValidException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/ResourceAccessException.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
* /spring-web-4-3-19-release-sources-3-

```

```

jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
*
/spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/jaxws/LocalJaxWsServiceFactoryBean.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/WebApplicationContext.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/WebArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/ServletRequestUtils.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/MultipartRequest.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/ServletContextAware.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletContextLiveBeansView.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/ServletRequestDataBinder.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/InitBinder.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/TagUtils.java

```

1.390 spring-aop 4.3.19.RELEASE

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Found in path(s):

```

* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/ThrowsAdvice.java

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```

Found in path(s):

```
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AopNamespaceUtils.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AopConfigUtils.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/StaticMethodMatcher.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/CglibAopProxy.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AdvisedSupport.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/IntroductionInfoSupport.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ProxyProcessorSupport.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/MethodMatcher.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /spring-aop-4-3-19-release-sources-3-
```

```

jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/RootClassFilter.java
*
/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DynamicMethodMatcher.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
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```

* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AspectEntry.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/BeforeAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/ClassFilter.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/RawTargetAccess.java
*

```

/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/AfterAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/SpringProxy.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/IntroductionInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AspectComponentDefinition.java
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Found in path(s):

* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
*
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/PointcutEntry.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AdvisorEntry.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AdviceEntry.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/dynamic/Refreshable.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
*
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java

- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopProxyFactory.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopContext.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AopNamespaceHandler.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/scope/DefaultScopedObject.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/IntroductionAdvisor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/HotSwappableTargetSource.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/Pointcut.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/AopInvocationException.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/EmptyTargetSource.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/PointcutComponentDefinition.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/SingletonTargetSource.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/DynamicIntroductionAdvice.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapt/UnknownAdviceTypeException.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapt/ThrowsAdviceAdapter.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/LazyInitTargetSource.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ProxyConfig.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/scope/ScopedObject.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/PointcutAdvisor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/Advisor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/AfterReturningAdvice.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapt/GlobalAdvisorAdapterRegistry.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/PoolingConfig.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/PoolingConfig.java

```

jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopProxy.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopConfigException.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
*
/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TrueClassFilter.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/MethodBeforeAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TruePointcut.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/IntroductionInfo.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
*

```


/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/ClassFilters.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/MethodInvocation.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/Invocation.java
*

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/spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/aop/AspectException.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/Joinpoint.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/Interceptor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/MethodInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/aop/Advice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
*
/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/ConstructorInvocation.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ProxyFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/AopUtils.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
*
/spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
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- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
- *
 - /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
 - * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
 - * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
 - * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AdvisorChainFactory.java
 - * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
 - * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/PrototypeTargetSource.java

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- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
- * /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
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/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/scope/ScopedProxyUtils.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/ComposablePointcut.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopProxyUtils.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
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jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
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jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/ExpressionPointcut.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TargetClassAware.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/MethodMatchers.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TrueMethodMatcher.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/ProxyMethodInvocation.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/Pointcuts.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/CommonsPoolTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
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jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
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* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeConverter.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/access/BeanFactoryReference.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/SimpleTypeConverter.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanInfoFactory.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
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jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/access/el/SimpleSpringBeanELResolver.java
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/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyAccessorFactory.java

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* /spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java

*

/spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java

* /spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeMismatchException.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/URIEditor.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/YamlProcessor.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/ParserContext.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/InitializingBean.java

* /spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyMatches.java

*

/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanWrapperImpl.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/DirectFieldAccessor.java

* /spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeConverterDelegate.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/Mergeable.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java

* /spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java


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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanUtils.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
*
/spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
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Found in path(s):

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* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ReaderEventListener.java

```

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyValuesEditor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanMetadataElement.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/InvalidPropertyException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/DocumentLoader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedList.java

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 * /spring-beans-4-3-19-release-sources-2-
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 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/PropertyComparator.java
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 * /spring-beans-4-3-19-release-sources-2-
 jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/ConversionNotSupportedException.java
 * /spring-beans-4-3-19-release-sources-2-
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 * /spring-beans-4-3-19-release-sources-2-
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 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/MutableSortDefinition.java
 *
 /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedSet.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
 * /spring-beans-4-3-19-release-sources-2-
 jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/PatternEditor.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/Configurable.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyValues.java

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* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
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jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/Location.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanFactoryAware.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/FatalBeanException.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedMap.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanMetadataAttribute.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java
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/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedProperties.java
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jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
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* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/Value.java

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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/access/BeanFactoryLocator.java
* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
* /spring-beans-4-3-19-release-sources-2-
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/spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/Required.java
* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanExpressionException.java
* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyAccessorUtils.java
* /spring-beans-4-3-19-release-sources-2-
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jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/MethodInvocationException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/SortDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CharsetEditor.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/access/BootstrapException.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/NotWritablePropertyException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
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- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/SetFactoryBean.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
- *
- /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/InjectionPoint.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/CachedIntrospectionResults.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/Problem.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/ObjectFactory.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/BeanDefinition.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanFactory.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/MapFactoryBean.java
- *
- /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ReaderContext.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyAccessException.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyAccessor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
- *
- /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/ListFactoryBean.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
*
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/Lookup.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/annotation/AnnotationBeanUtils.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/ExtendedBeanInfo.java
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 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanNameAware.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
 *
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/Qualifier.java
 * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/Aware.java
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- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/BeanEntry.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java

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- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
- *
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CharacterEditor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/AbstractPropertyAccessor.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/LookupOverride.java
- * /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/SmartInitializingSingleton.java
- * /spring-beans-4-3-19-release-sources-2-

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jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/MethodOverride.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ReplaceOverride.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/access/el/SpringBeanELResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/NotReadablePropertyException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java
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```

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanInstantiationException.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/ListableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyValue.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java

```

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* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/Scope.java
* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/FactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/AutowireUtils.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/NamedBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanWrapper.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanCreationException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/PathEditor.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/MethodOverrides.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/URLEditor.java
*

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/spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/NullValueInNestedPathException.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeConverterSupport.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ConstructorResolver.java
*
/spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanInitializationException.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java

```

1.392 spring-tx 4.3.19.RELEASE

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```

* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java

```

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*
/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/SmartTransactionObject.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/ResourceHolder.java
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jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/SimpleTransactionScope.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/InteractionCallback.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/TransactionCallback.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/ConnectionCallback.java
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* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/Propagation.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
*
/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionalProxy.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /spring-tx-4-3-19-release-sources-3-

jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java

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* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
*
/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/TransactionTemplate.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
*
/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/Transactional.java
```

```
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
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jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionDefinition.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/event/TransactionPhase.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/event/TransactionalEventListener.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/object/EisOperation.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/support/DataAccessUtils.java
*
/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/ResourceHolderSupport.java
```


* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/SavepointManager.java
*

/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
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```
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/CannotCreateRecordException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/TransactionOperations.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/PessimisticLockingFailureException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/PlatformTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/IllegalTransactionStateException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/connection/ConnectionHolder.java
* /spring-tx-4-3-19-release-sources-3-
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* /spring-tx-4-3-19-release-sources-3-
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* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/ConcurrencyFailureException.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/CannotCreateTransactionException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/CannotSerializeTransactionException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/DuplicateKeyException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/RecordCreator.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/TransactionFactory.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/CleanupFailureDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/TransientDataAccessResourceException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/NoTransactionException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/DataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/TransientDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/support/DaoSupport.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/BootstrapContextAware.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/support/SimpleBootstrapContext.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/QueryTimeoutException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
 *
 /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/DataIntegrityViolationException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/OptimisticLockingFailureException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/RecoverableDataAccessException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionTimedOutException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/connection/SingleConnectionFactory.java
 *
 /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/HeuristicCompletionException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionUsageException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/ResourceTransactionManager.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/EmptyResultDataAccessException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/UncategorizedDataAccessException.java
 *
 /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/InvalidTimeoutException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/object/MappingRecordOperation.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/TypeMismatchDataAccessException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/RecordExtractor.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionSystemException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/CciTemplate.java
 *
 /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionException.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
 * /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java

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jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/DataRetrievalFailureException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/DelegatingWork.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/DataAccessResourceFailureException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/UnexpectedRollbackException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/CannotAcquireLockException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/NonTransientDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/Isolation.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/InvalidIsolationLevelException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/NonTransientDataAccessResourceException.java

```

1.393 commons-dbcp 1.2.2.osgi

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* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
 jar/org/apache/commons/dbcp/PoolableConnectionFactory.java
 *
 /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
 jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java
 * /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
 jar/org/apache/commons/dbcp/datasources/CPDSCONNECTIONFACTORY.java
 * /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
 jar/org/apache/commons/dbcp/datasources/KeyedCPDSCONNECTIONFACTORY.java
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* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
 jar/org/apache/commons/dbcp/DelegatingPreparedStatement.java
 *
 /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
 jar/org/apache/commons/dbcp/datasources/SharedPoolDataSourceFactory.java

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* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/PoolingConnection.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/jocl/JOCLContentHandler.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/SequencedHashMap.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DriverManagerConnectionFactory.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSourceFactory.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/ConnectionFactory.java
*
/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DelegatingCallableStatement.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/cpdsadapter/PooledConnectionImpl.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/cpdsadapter/DriverAdapterCPDS.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/BasicDataSourceFactory.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
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* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/UserPassKey.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DbcpException.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/AbandonedConfig.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DelegatingConnection.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/SQLNestedException.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/AbandonedTrace.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/PoolableConnection.java

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* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/PoolingDriver.java
*
/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/jocl/ConstructorUtil.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/AbandonedObjectPool.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DelegatingResultSet.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/PoolKey.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/LRUMap.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DriverConnectionFactory.java
*
/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/BasicDataSource.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DelegatingStatement.java
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java
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* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/package.html
*

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/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/package.html
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/jocl/package.html
* /com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/package.html

1.394 commons-logging 1.1.1

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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):

- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ConcurrentReaderHashMap.java

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

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Found in path(s):

* /dom4j-1-6-1-sources-4-jar/org/dom4j/InvalidXPathException.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedElement.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultAttribute.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/Branch.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableColumnDefinition.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/AttributeHelper.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/NodeComparator.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/SingleIterator.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/XPPReader.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/Node.java
 * /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/NullAction.java
 *

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/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentHelper.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentSource.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractNode.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocument.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/STAXEventWriter.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractText.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractBranch.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXEventRecorder.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMNamespace.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightEntity.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/util/NonLazyElement.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/NamespaceStack.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BaseElement.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMElement.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/pattern/NodeTypePattern.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBRuntimeException.java
*
/dom4j-1-6-1-sources-4-jar/org/dom4j/xpp/ProxyXmlStartTag.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttribute.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Stylesheet.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMEntityReference.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightAttribute.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultText.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/XMLResult.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMNodeHelper.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/XPathException.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractElement.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/Namespace.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Pattern.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/DOMWriter.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/IllegalAddException.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMCDATA.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeDocumentFactory.java
*
/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/AttributeDecl.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/util/UserDataDocumentFactory.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBWriter.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/Attribute.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanDocumentFactory.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/ElementHandler.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightText.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/JAXPHelper.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/util/PerThreadSingleton.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/QNameCache.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/VisitorSupport.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentResult.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/Entity.java
* /dom4j-1-6-1-sources-4-jar/org/dom4j/NodeFilter.java

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- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultElement.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Rule.java
- *
- /dom4j-1-6-1-sources-4-jar/org/dom4j/CharacterData.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/PruningDispatchHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocumentType.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBSupport.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentFactory.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/ElementStack.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/DefaultXPath.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/XMLWriter.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/STAXEventReader.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableDefinition.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyContentHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXValidator.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBReader.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyReader.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FilterIterator.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BackedList.java
- *
- /dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentException.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/Comment.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/ExternalEntityDecl.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/DOMReader.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/XMLErrorHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/Text.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/InvalidSchemaException.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/swing/BranchTreeNode.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/ElementDecl.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractEntity.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/HTMLWriter.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeAttribute.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/UserDataElement.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentType.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyElementHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultNamespace.java
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- /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/RuleManager.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Action.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/ElementModifier.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ElementNameIterator.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/QName.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/NonLazyDocumentFactory.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMText.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultDocument.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMAttributeNodeMap.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedDocumentFactory.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeElementFactory.java

- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMProcessingInstruction.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultDocumentType.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/InternalEntityDecl.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultProcessingInstruction.java
- *
- /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMComment.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/UserDataAttribute.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightComment.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightProcessingInstruction.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/PruningElementStack.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/NamespaceCache.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/SchemaParser.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractComment.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractDocumentType.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXContentHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBModifier.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXWriter.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/swing/DocumentTreeModel.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/SingletonStrategy.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/XPP3Reader.java
- *
- /dom4j-1-6-1-sources-4-jar/org/dom4j/io/OutputFormat.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractDocument.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/Visitor.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultComment.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ElementQNameIterator.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeElement.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/SimpleSingleton.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableModel.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/RuleSet.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/Element.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBObjectModifier.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractAttribute.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultCDATA.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanMetaData.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/DispatchHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ContentListFacade.java
- *
- /dom4j-1-6-1-sources-4-jar/org/dom4j/Document.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/pattern/DefaultPattern.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/ElementPath.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ElementIterator.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBObjectHandler.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/NamedTypeResolver.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/DefaultNamespaceContext.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocumentFactory.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyException.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractProcessingInstruction.java

- * /dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/XPathPattern.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/CDATA.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCharacterData.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXReader.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Mode.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightCDATA.java
- *
- /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultEntity.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMAttribute.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXHelper.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/util/ProxyDocumentFactory.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttributeList.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanElement.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCDATA.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentInputSource.java
- * /dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifier.java

1.396 httpclient 4.4.1

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1.398 reflections 0.9.10

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 */
```

Found in path(s):

```
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/CharMemberValue.java
*
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/StringMemberValue.java
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Found in path(s):

* /javassist-3-18-2-ga-sources-9-jar/javassist/CannotCompileException.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/StackMap.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/SerialVersionUID.java
*
/javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/Bytecode.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/BinExpr.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/ByteArrayClassPath.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/AppletServer.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/CtBehavior.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/ClassMap.java
*
/javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/stackmap/TypedBlock.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/CtField.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/Translator.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/CtClass.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/SecurityActions.java
*
/javassist-3-18-2-ga-sources-9-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/BadBytecode.java
* /javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/RemoteRef.java

- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/LocalVariableTypeAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/ObjectImporter.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/runtime/DotClass.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/NotFoundException.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/TokenId.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/ClassPath.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/util/HotSwapper.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/SubroutineScanner.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/InnerClassesAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/StringL.java
- *
- /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/stackmap/Tracer.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/NoFieldException.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/FieldInfo.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/CodeIterator.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtNewNestedClass.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtNewMethod.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/AccessorMaker.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/SyntheticAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformWriteField.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/ConstructorCall.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/Opcodes.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformAfter.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtArray.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/Proxy.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/Expr.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtConstructor.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/AnnotationsAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/JvstTypeChecker.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/SymbolTable.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/KeywordTable.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/LineNumberAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/Dump.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformNewClass.java
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- /javassist-3-18-2-ga-sources-9-jar/javassist/expr/MethodCall.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/annotation/AnnotationImpl.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/framedump.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtNewConstructor.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/AssignExpr.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/EnclosingMethodAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/MultiType.java

- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/Mnemonic.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/Proxy.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/Modifier.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/LoaderClassPath.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ByteStream.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/TypeChecker.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/NewArray.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/FieldDecl.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/LongVector.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/CannotReflectException.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/MultiArrayType.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/CannotCreateException.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/CondExpr.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/Loader.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Member.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ConstPool.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/Parser.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtMember.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Expr.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/DuplicateMemberException.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/MethodFilter.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/Util.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Symbol.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/MethodDecl.java
- *
- /javassist-3-18-2-ga-sources-9-jar/javassist/Loader.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/ClassPoolTail.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/NewExpr.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/Javac.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/runtime/Inner.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/ClassClassPath.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/FieldAccess.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/runtime/Desc.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformCall.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/ASTree.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtPrimitiveType.java

- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/Cast.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/Lex.java
- *
- /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/RuntimeSupport.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/expr/Handler.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/Reflection.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformFieldAccess.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/IntConst.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ClassFilePrinter.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/ClassMetaobject.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/AccessFlag.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/IntQueue.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/MemberCodeGen.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformReadField.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtNewWrappedMethod.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/JvstCodeGen.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtClassType.java
- *
- /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformBefore.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/Analyzer.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/Transformer.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtNewClass.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/MethodHandler.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/CastExpr.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/MethodInfo.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/CompileError.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/Sample.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/DoubleConst.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/CallExpr.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Pair.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/RemoteException.java
- *
- /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/CodeGen.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ConstantAttribute.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/ProxyFactory.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/CtMethod.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
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- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/Frame.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/util/proxy/SerializedProxy.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformAccessArrayField.java
- *
- /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ExceptionTable.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/InstanceOfExpr.java

- * /javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/ByteArray.java
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- /javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/Sample.java
- * /javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/ASTList.java
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* /jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java
* /jaeger-core-1-5-0-sources-jar/io/jaegertracing/Configuration.java
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*/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/MetricsFactory.java
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/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSender.java
* /jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SenderFactory.java
* /jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/PropagationRegistry.java
* /jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/SenderResolver.java

1.402 jta 1.1.0

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 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashJNI.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4BlockOutputStream.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Factory.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Constants.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4HCJNICompressor.java
 *
 /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Exception.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4FastDecompressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashConstants.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/StreamingXXHash32JNI.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/util/Native.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/AbstractStreamingXXHash32Java.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNICompressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/util/UnsafeUtils.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashFactory.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/util/Utils.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4BlockInputStream.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHash32.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHash32JNI.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Decompressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/StreamingXXHash32.java
 *
 /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4SafeDecompressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNI.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Utils.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNISafeDecompressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Compressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4UnknownSizeDecompressor.java
 * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
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- * /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/package.html
- * /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/package.html
- * /lz4-1-2-0-sources-1-jar/net/jpountz/util/package.html

1.404 error_prone_annotations 2.1.2

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* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/NoAllocation.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
*
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/Immutable.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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- * /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/FormatString.java
- * /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/FormatMethod.java
- *
- * /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/MustBeClosed.java
- * /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/RestrictedApi.java
- * /error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/CompatibleWith.java

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- * /accessors-smart-1-2-sources-5-jar/net/minidev/asm/BeansAccess.java
- * /accessors-smart-1-2-sources-5-jar/net/minidev/asm/DynamicClassLoader.java
- * /accessors-smart-1-2-sources-5-jar/net/minidev/asm/Accessor.java
- * /accessors-smart-1-2-sources-5-jar/net/minidev/asm/ASMUtil.java

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- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/ParseException.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/RegularExpression.java
- *
- /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Match.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Op.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/REUtil.java
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- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ShortType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
- *
- /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/SimpleURType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XSDatatype.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/SerializationContext.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IDType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GYearMonthType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GDayType.java
- *
- /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ListValueType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DurationType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ConcreteType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TokenType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NmtokenType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Proxy.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
- *
- /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExp.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FinalComponent.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedByteType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BooleanType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LengthFacet.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntType.java
- * /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GYearType.java

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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LongType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/DatabindableDatatype.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateTimeType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/AnyURIType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NcnameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedShortType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Discrete.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnionType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Comparator.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/xml/util/XmlChars.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XmlNames.java
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/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PatternFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/RangeFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ListType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TimeType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/StringType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ErrorType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java

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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DatatypeFactory.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IDREFTType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BinaryValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeLibraryImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/Util.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NumberType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DoubleType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LanguageType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ByteType.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/message_ja.properties

* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/message.properties

1.407 json-smart 2.3

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- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONObject.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONArray.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAwareEx.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/FakeMapper.java
- *
- /json-smart-2-3-sources-4-jar/net/minidev/json/JSONAwareEx.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/ParseException.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JStylerObj.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONUtil.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserString.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/JsonReader.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserReader.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/BeansMapper.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAware.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserBase.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperOrdered.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserMemory.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/ArraysMapper.java
- *
- /json-smart-2-3-sources-4-jar/net/minidev/json/writer/CollectionMapper.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParser.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/CompressorMapper.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperCollection.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/writer/JsonReaderI.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserStream.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONStyle.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserInputStream.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/JSONAware.java
- * /json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserByteArray.java

1.408 annotations 2.0.1

1.408.1 Available under license :

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1.409 httpclient 3.10.0

1.409.1 Available under license :

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1.410 groovy 3.0.8

1.410.1 Available under license :

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:
 *
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 * 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
*/
parser grammar GroovyParser;

options {
    tokenVocab = GroovyLexer;
    contextSuperClass = GroovyParserRuleContext;
    superClass = AbstractParser;
}

@header {
    import java.util.Map;
    import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

    public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
        private Map metaDataMap = null;

        public GroovyParserRuleContext() {}

        public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
            super(parent, invokingStateNumber);
        }

        @Override
        public Map<?, ?> getMetaDataMap() {
            return this.metaDataMap;
        }

        @Override
        public void setMetaDataMap(Map<?, ?> metaDataMap) {
            this.metaDataMap = metaDataMap;
        }
    }

    @Override
    public int getSyntaxErrorSource() {
        return GroovySyntaxError.PARSER;
    }

    @Override
    public int getErrorLine() {
        Token token = _input.LT(-1);

        if (null == token) {

```

```

        return -1;
    }

    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getCharPositionInLine() + 1 + token.getText().length();
}
}

// starting point for parsing a groovy file
compilationUnit
: nls (packageDeclaration sep?)? scriptStatements? EOF
;

scriptStatements
: scriptStatement (sep scriptStatement)* sep?
;

scriptStatement
: importDeclaration
// Import statement. Can be used in any scope. Has "import x as y" also.
| typeDeclaration
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
| { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
  methodDeclaration[3, 9]
| statement
;

packageDeclaration
: annotationsOpt PACKAGE qualifiedName
;

importDeclaration
: annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
;

typeDeclaration
: classOrInterfaceModifiersOpt classDeclaration

```

```

;

modifier
: classOrInterfaceModifier
| m=( NATIVE
  | SYNCHRONIZED
  | TRANSIENT
  | VOLATILE
  | DEF
  | VAR
  )
;

modifiersOpt
: (modifiers nls)?
;

modifiers
: modifier (nls modifier)*
;

classOrInterfaceModifiersOpt
: (classOrInterfaceModifiers
  NL* /* Use `NL*` here for better performance,
so DON'T replace it with `nls` */
  )?
;

classOrInterfaceModifiers
: classOrInterfaceModifier (nls classOrInterfaceModifier)*
;

classOrInterfaceModifier
: annotation // class or interface
| m=( PUBLIC // class or interface
  | PROTECTED // class or interface
  | PRIVATE // class or interface
  | STATIC // class or interface
  | ABSTRACT // class or interface
  | FINAL // class only -- does not apply to interfaces
  | STRICTFP // class or interface
  | DEFAULT // interface only -- does not apply to classes
  )
;

variableModifier
: annotation
| m=( FINAL

```

```

| DEF
| VAR
// Groovy supports declaring local variables as instance/class fields,
// e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
// e.g. import groovy.transform.*; def a = { @Field public List awe
= [1, 2, 3] }
// Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
// TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
| PUBLIC
| PROTECTED
| PRIVATE
| STATIC
| ABSTRACT
| STRICTFP
)
;

variableModifiersOpt
: (variableModifiers nls)?
;

variableModifiers
: variableModifier (nls variableModifier)*
;

typeParameters
: LT nls typeParameter (COMMA nls typeParameter)* nls GT
;

typeParameter
: className (EXTENDS nls typeBound)?
;

typeBound
: type (BITAND nls type)*
;

typeList
: type (COMMA nls type)*
;

/**
* t 0: class; 1: interface; 2: enum; 3: annotation; 4:

```

```

trait
*/
classDeclaration
locals[ int t ]
: ( CLASS { $t = 0; }
  | INTERFACE { $t = 1; }
  | ENUM { $t = 2; }
  | AT INTERFACE { $t = 3; }
  | TRAIT { $t = 4; }
  )
identifier
(nls typeParameters)?
(nls EXTENDS nls scs=typeList)?
(nls IMPLEMENTS nls is=typeList)?
nls classBody[$t]
;

// t see the comment of classDeclaration
classBody[int t]
: LBRACE nls
  (
    /* Only enum can have enum constants */
    { 2 == $t }?
    enumConstants (nls COMMA)? sep?
  |
  )
  (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
;

enumConstants
: enumConstant (nls COMMA nls enumConstant)*
;

enumConstant
: annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;

classBodyDeclaration[int t]
: (STATIC nls)? block
| memberDeclaration[$t]
;

memberDeclaration[int t]
: methodDeclaration[0,
$t]
| fieldDeclaration
| modifiersOpt classDeclaration
;

```

```

/**
 * t 0: *class member* all kinds of method declaration AND constructor declaration,
 * 1: normal method declaration, 2: abstract method declaration
 * 3: normal method declaration OR abstract method declaration
 * ct 9: script, other see the comment of classDeclaration
 */
methodDeclaration[int t, int ct]
: modifiersOpt typeParameters? (returnType[$ct] nls)?
  methodName formalParameters
  (
    DEFAULT nls elementValue
  |
    (nls THROWS nls qualifiedClassNameList)?
    (nls methodBody)?
  )?
;

methodName
: identifier
| stringLiteral
;

returnType[int ct]
:
  standardType
| VOID
;

fieldDeclaration
: variableDeclaration[1]
;

variableDeclarators
: variableDeclarator (COMMA nls variableDeclarator)*
;

variableDeclarator
: variableDeclaratorId (nls ASSIGN nls variableInitializer)?
;

variableDeclaratorId
: identifier
;

variableInitializer
: enhancedStatementExpression
;

```

```
variableInitializers
: variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
;
```

```
emptyDims
: (annotationsOpt LBRACK RBRACK)+
;
```

```
emptyDimsOpt
: emptyDims?
;
```

```
standardType
options { baseContext = type; }
: annotationsOpt
(
    primitiveType
|
    standardClassOrInterfaceType
)
emptyDimsOpt
;
```

```
type
: annotationsOpt
(
    (
        primitiveType
    |
        // !!! Error Alternative !!!
        VOID
    )
|
    generalClassOrInterfaceType
)
emptyDimsOpt
;
```

```
classOrInterfaceType
: ( qualifiedClassName
| qualifiedStandardClassName
) typeArguments?
;
```

```
generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
```

```

: qualifiedClassName typeArguments?
;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedStandardClassName typeArguments?
;

primitiveType
: BuiltInPrimitiveType
;

typeArguments
: LT nls typeArgument (COMMA nls typeArgument)* nls GT
;

typeArgument
: type
| annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
;

annotatedQualifiedClassName
: annotationsOpt qualifiedClassName
;

qualifiedClassNameList
: annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
;

formalParameters
: LPAREN formalParameterList? rparen
;

formalParameterList
: (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
;

thisFormalParameter
: type THIS
;

formalParameter
: variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
;

methodBody
: block
;

```



```

qualifiedName
  : qualifiedNameElement
  (DOT qualifiedNameElement)*
  ;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */
qualifiedNameElement
  : identifier
  | DEF
  | IN
  | AS
  | TRAIT
  ;

qualifiedNameElements
  : (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  : qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  : qualifiedNameElements className (DOT className)*
  ;

literal
  : IntegerLiteral                                #integerLiteralAlt
  | FloatingPointLiteral                          #floatingPointLiteralAlt
  | stringLiteral                                #stringLiteralAlt
  | BooleanLiteral                               #booleanLiteralAlt
  | NullLiteral                                  #nullLiteralAlt
  ;

// GSTRING

gstring
  : GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
  ;

gstringValue
  : gstringPath
  | closure

```

```

;

gstringPath
: identifier GStringPathPart*
;

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
: lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
: standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }
: formalParameters

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
// | variableDeclaratorId
;

standardLambdaParameters
: formalParameters
|
variableDeclaratorId
;

lambdaBody
: block
| statementExpression
;

// CLOSURE
closure
: LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
: closure
| lambdaExpression

```

```

;

blockStatementsOpt
: blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
: (annotation (nls annotation)* nls)?
;

annotation
: AT annotationName (nls LPAREN elementValues? rparen)?
;

elementValues
: elementValuePairs
| elementValue
;

annotationName : qualifiedClassName ;

elementValuePairs
: elementValuePair (COMMA elementValuePair)*
;

elementValuePair
: elementValuePairName nls ASSIGN nls elementValue
;

elementValuePairName
: identifier
| keywords
;

// TODO verify the potential performance issue
because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
: elementValueArrayInitializer
| annotation
| expression
;

```

```

elementValueArrayInitializer
: LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
;

// STATEMENTS / BLOCKS

block
: LBRACE sep? blockStatementsOpt RBRACE
;

blockStatement
: localVariableDeclaration
| statement
;

localVariableDeclaration
: { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
  variableDeclaration[0]
;

/**
 * t 0: local variable declaration; 1: field declaration
 */
variableDeclaration[int t]
: modifiers nls
  ( type? variableDeclarators
  | typeNamePairs nls ASSIGN nls variableInitializer
  )
|
  type variableDeclarators
;

typeNamePairs
: LPAREN typeNamePair (COMMA typeNamePair)* rparen
;

typeNamePair
: type? variableDeclaratorId
;

variableNames
: LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
;

conditionalStatement
: ifElseStatement
| switchStatement
;

```

ifElseStatement

```
: IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?  
;
```

switchStatement

```
: SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE  
;
```

loopStatement

```
: FOR LPAREN forControl rparen nls statement #forStmtAlt  
| WHILE expressionInPar nls statement #whileStmtAlt  
| DO nls statement nls WHILE expressionInPar #doWhileStmtAlt  
;
```

continueStatement

```
: CONTINUE  
  identifier?  
;
```

breakStatement

```
: BREAK  
  identifier?  
;
```

tryCatchStatement

```
: TRY resources? nls block  
  (nls catchClause)*  
  (nls finallyBlock)?  
;
```

assertStatement

```
: ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?  
;
```

statement

```
: block #blockStmtAlt  
| conditionalStatement #conditionalStmtAlt  
| loopStatement #loopStmtAlt  
| tryCatchStatement #tryCatchStmtAlt  
| SYNCHRONIZED expressionInPar nls block #synchronizedStmtAlt  
| RETURN expression? #returnStmtAlt  
| THROW expression #throwStmtAlt  
| breakStatement #breakStmtAlt  
| continueStatement #continueStmtAlt  
| identifier COLON nls statement #labeledStmtAlt  
| assertStatement #assertStmtAlt
```

localVariableDeclaration	#localVariableDeclarationStmtAlt
statementExpression	#expressionStmtAlt
SEMI	#emptyStmtAlt
;	

catchClause

```
: CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
```

```
;
```

catchType

```
: qualifiedClassName
```

```
(BITOR qualifiedClassName)*
```

```
;
```

finallyBlock

```
: FINALLY nls block
```

```
;
```

resources

```
: LPAREN nls resourceList sep? rparen
```

```
;
```

resourceList

```
: resource (sep resource)*
```

```
;
```

resource

```
: localVariableDeclaration
```

```
| expression
```

```
;
```

/** Matches cases then statements, both of which are mandatory.

* To handle empty cases at the end, we add switchLabel* to statement.

*/

switchBlockStatementGroup

```
: switchLabel (nls switchLabel)* nls blockStatements
```

```
;
```

switchLabel

```
: CASE expression COLON
```

```
| DEFAULT COLON
```

```
;
```

forControl

```
: enhancedForControl
```

```
| classicalForControl
```

```
;
```

```

enhancedForControl
: variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
;

classicalForControl
: forInit? SEMI expression? SEMI forUpdate?
;

forInit
: localVariableDeclaration
| expressionList[false]
;

forUpdate
: expressionList[false]
;

// EXPRESSIONS

castParExpression
:
LPAREN type rparen
;

parExpression
: expressionInPar
;

expressionInPar
: LPAREN enhancedStatementExpression rparen
;

expressionList[boolean canSpread]
: expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
;

expressionListElement[boolean canSpread]
: MUL? expression
;

enhancedStatementExpression
: statementExpression
| standardLambdaExpression
;

statementExpression

```

```

: commandExpression          #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// must come before postfixExpression to 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.
        HashMap<String, Integer>::new
        // Though this is not a graceful solution, it is much faster than replacing `builtInType`
        with `type`
        identifier typeArguments?                                #identifierPrmrAlt
    | literal                                                    #literalPrmrAlt
    | gstring                                                    #gstringPrmrAlt
    | NEW nls creator[0]                                         #newPrmrAlt
    | THIS                                                       #thisPrmrAlt
    | SUPER                                                      #superPrmrAlt
    | parExpression                                              #parenPrmrAlt
    | closureOrLambdaExpression                                #closureOrLambdaExpressionPrmrAlt
    | list                                                       #listPrmrAlt
    | map                                                        #mapPrmrAlt
    | builtInType                                                #builtInTypePrmrAlt
    ;

```

```

namedPropertyArgPrimary
options { baseContext = primary; }
    : identifier                #identifierPrmrAlt
    | literal                   #literalPrmrAlt
    | gstring                   #gstringPrmrAlt
    | parExpression             #parenPrmrAlt
    ;

```

```

namedArgPrimary
options { baseContext = primary; }
    : identifier                #identifierPrmrAlt
    | literal                   #literalPrmrAlt
    |
    | gstring                   #gstringPrmrAlt
    ;

```

```

commandPrimary
options { baseContext = primary; }
    : identifier                #identifierPrmrAlt
    | literal                   #literalPrmrAlt
    | gstring                   #gstringPrmrAlt
    ;

```

```

list
    : LBRACK expressionList[true]? COMMA? RBRACK
    ;

```

```

map
    : LBRACK
      ( mapEntryList COMMA?
        | COLON
      )
      RBRACK
    ;

```

```

mapEntryList
    : mapEntry (COMMA mapEntry)*
    ;

```

```

namedPropertyArgList
options { baseContext = mapEntryList; }
    : namedPropertyArg (COMMA namedPropertyArg)*
    ;

```

```

mapEntry
    : mapEntryLabel COLON nls expression
    | MUL COLON nls expression
    ;

```

```

namedPropertyArg
options { baseContext = mapEntry; }
  : namedPropertyArgLabel
COLON nls expression
  | MUL COLON nls expression
  ;

```

```

namedArg
options { baseContext = mapEntry; }
  : namedArgLabel COLON nls expression
  | MUL COLON nls expression
  ;

```

```

mapEntryLabel
  : keywords
  | primary
  ;

```

```

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedPropertyArgPrimary
  ;

```

```

namedArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedArgPrimary
  ;

```

```

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]
  : createdName
    ( nls arguments anonymousInnerClassDeclaration[0]?
    | dim+ (nls arrayInitializer)?
    )
  ;

```

```

dim
  : annotationsOpt LBRAK expression? RBRAK
  ;

```

```

arrayInitializer
  : LBRAK nls (variableInitializers nls)? RBRAK
  ;

```

```

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
  : classBody[0]
  ;

createdName
  : annotationsOpt

  ( primitiveType
    | qualifiedClassName typeArgumentsOrDiamond?
  )
  ;

nonWildcardTypeArguments
  : LT nls typeList nls GT
  ;

typeArgumentsOrDiamond
  : LT GT
  | typeArguments
  ;

arguments
  : LPAREN enhancedArgumentListInPar? COMMA? rparen
  ;

argumentList
options { baseContext = enhancedArgumentListInPar; }
  : firstArgumentListElement
    ( COMMA nls
      argumentListElement
    )*
  ;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
  : firstEnhancedArgumentListElement
    ( COMMA nls
      enhancedArgumentListElement
    )*
  ;

enhancedArgumentListInPar
  : enhancedArgumentListElement
    ( COMMA nls

```



```

        enhancedArgumentListElement
    )*
;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedArg
;

argumentListElement
options { baseContext = enhancedArgumentListElement;
}
: expressionListElement[true]
| namedPropertyArg
;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| standardLambdaExpression
| namedArg
;

enhancedArgumentListElement
: expressionListElement[true]
| standardLambdaExpression
| namedPropertyArg
;

stringLiteral
: StringLiteral
;

className
: CapitalizedIdentifier
;

identifier
: Identifier
| CapitalizedIdentifier
| VAR
| IN
// | DEF
| TRAIT
| AS
;

```

builtInType
: BuiltInPrimitiveType
| VOID
;

keywords
: ABSTRACT
| AS
| ASSERT
| BREAK
| CASE
| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
| ELSE
| ENUM
| EXTENDS
| FINAL
| FINALLY
| FOR
| GOTO
| IF
| IMPLEMENTS
| IMPORT
| IN
| INSTANCEOF
| INTERFACE
| NATIVE
| NEW
| PACKAGE
| RETURN
| STATIC
| STRICTFP
| SUPER
| SWITCH
| SYNCHRONIZED
| THIS
| THROW
| THROWS
| TRANSIENT
| TRAIT
| THREADSAFE
| TRY
| VAR

```

| VOLATILE
| WHILE

| NullLiteral
| BooleanLiteral

| BuiltInPrimitiveType
| VOID

| PUBLIC
| PROTECTED
| PRIVATE
;

rparen
: RPAREN
;

nls
: NL*
;

sep : (NL | SEMI)+
;

Found in path(s):
*/groovy-3-0-8-sources-1-jar/GroovyParser.g4
No license file was found, but licenses were detected in source scan.

/** JSR-241 Groovy Recognizer.
 *
 * Run 'java Main [-showtree] directory-full-of-groovy-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Contributing authors:
 *      John Mitchell      johnm@non.net
 *      Terence Parr       parrt@magelang.com
 *      John Lilley        jlilley@empathy.com
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 *      Peter Williams     pete.williams@sun.com
 *      Allan Jacobs       Allan.Jacobs@eng.sun.com
 *      Steve Messick      messick@redhills.com
 *      James Strachan     jstrachan@protique.com
 *      John Pybus         john@pybus.org
 *      John Rose          rose00@mac.com

```

- * Jeremy Rayner
groovy@ross-rayner.com
- * Alex Popescu the.mindstorm@gmail.com
- * Martin Kempf mkempf@hsr.ch
- * Reto Kleeb rkleeb@hsr.ch
- *
- * Version 1.00 December 9, 1997 -- initial release
- * Version 1.01 December 10, 1997
- * fixed bug in octal def (0..7 not 0..8)
- * Version 1.10 August 1998 (parrrt)
- * added tree construction
- * fixed definition of WS, comments for mac, pc, unix newlines
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- * synchronized requires compound not simple statement
- * add [] after builtInType DOT class in primaryExpression
- * "const" is reserved but not valid..removed from modifiers
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- *
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- * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
- * fixed: didn't like Object[].class in parser or tree parser
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- * Tree grammar didn't allow multiple superinterfaces.
- * Tree grammar didn't allow empty var initializer: {}
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- * 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)
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- * 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
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- merged local class definition alternatives, moved after declaration
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- * o whitespace rule was inefficient: matched only one char
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- * o made Main.java use buffered IO and a Reader for Unicode support
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- * Using Unicode charVocabulary makes code file big, but only
- * in the bitsets at the end. I need to make ANTLR generate
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- * 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.
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- * 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
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- *
- * 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 Java1.5 from Michael Studman (1.22.4)
- * and have applied the groovy.diff from java.g (1.22) by John Rose
- * back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
- *
- * Version 1.22.4.g.2
- * o 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
- */

Found in path(s):

* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

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

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Found in path(s):

* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java

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

/** Java 1.5 Recognizer

*

* Run 'java Main [-showtree] directory-full-of-java-files'

*

* [The -showtree option pops up a Swing frame that shows

* the AST constructed from the parser.]

*

* Run 'java Main <directory full of java files>'

*

* Contributing authors:

* Jeremy Rayner groovy@ross-rayner.com

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Found in path(s):

* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

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Found in path(s):

- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/io/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/io/package.html
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/xml/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/inspect/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/time/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/security/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/messages/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/package.html
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/lang/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/grape/defaultGrapeConfig.xml
- * /groovy-3-0-8-sources-1-jar/overview.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/package.html
- * /groovy-3-0-8-sources-1-jar/overviewj.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/package.html
- * /groovy-3-0-8-sources-1-jar/groovy/util/package.html
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/package.html

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```

Found in path(s):

```
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/IntArrayIterator.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/MetaClassRegistryChangeListener.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/SourceAwareCustomizer.java
* /groovy-3-0-8-sources-1-jar/groovy/util/MapEntry.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/m12n/SimpleExtensionModule.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/ListExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/DelegateASTTransformation.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/ExtendedVerifier.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/GroovyObjectSupport.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/messages/Message.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingPropertyExceptionNoStack.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/PropertyAccessInterceptor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/shell/util/Logger.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodCall.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/EnumHelper.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/AdaptingMetaClass.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/ReadOnlyPropertyException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/AssertStatement.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesClosureWriter.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/metaclass/Realm.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/NullCheckASTTransformation.java
```

- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/BuilderSupport.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/ASTRuntimeException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/CastExpressionOptimizer.java
- * /groovy-3-0-8-sources-1-jar/groovy/ui/GroovySocketServer.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/IFilenameFinder.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitASTTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/DynamicVariable.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/stc/SecondParam.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/ASTTest.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/SpreadMapEvaluatingException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ASTTransformationCollectorCodeVisitor.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java
- *
- /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/AbstractLexer.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
- * /groovy-3-0-8-sources-1-
- jar/org/codehaus/groovy/control/customizers/builder/SourceAwareCustomizerFactory.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/EmptyExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/Java5.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/MethodPointerExpressionWriter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/SortableASTTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/internal/metaclass/MetaClassConstant.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/SocketGroovyMethods.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/builder/ExternalStrategy.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/CallSiteGenerator.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/JUnit4Utils.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/GroovySourceAST.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/LoopingStatement.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/ListExpressionTransformer.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/TokenException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyConverter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewMetaMethod.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/IncorrectClosureArgumentsException.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/ExternalizeMethods.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/ModifierManager.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayPutAtMetaMethod.java
- *
- /groovy-3-0-8-sources-1-jar/groovy/security/GroovyCodeSourcePermission.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MethodSelectionException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ImmutableASTTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitReceiverTransformer.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/MetaClassRegistry.java

- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ThreadInterruptibleASTTransformation.groovy
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/plugin/DefaultRunners.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeDumper.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/FactoryBuilderSupport.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/IteratorBufferedIterator.java
- *
- /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/LazyInitializable.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/ByteWrapper.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/m12n/PropertiesModuleFactory.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ResourceGroovyMethods.java
- * /groovy-3-0-8-sources-1-jar/groovy/cli/TypedOption.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/SignatureCodecVersion1.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/PropertyOptions.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/NewifyASTTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
- * /groovy-3-0-8-sources-1-jar/groovy/transform/builder/InitializerStrategy.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/builder/AstSpecificationCompiler.groovy
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/EncodingGroovyMethods.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/EmptyRange.java
- * /groovy-3-0-8-sources-1-jar/groovy/cli/OptionField.groovy
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticInvocationWriter.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/groovydoc/Groovydoc.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/ClosureExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/CompileDynamicProcessor.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/TypeTransformers.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/EnumConstantClassNode.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/logging/Log4j.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/LazyFieldNode.java
- *
- /groovy-3-0-8-sources-1-
- jar/org/codehaus/groovy/control/customizers/builder/ASTTransformationCustomizerFactory.groovy
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/BlockStatement.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/MethodHandleWrapper.java
- * /groovy-3-0-8-sources-1-jar/groovy/io/PlatformLineWriter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/VerifierCodeVisitor.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/PermutationGenerator.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ComposedClosure.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/lang/annotation/Incubating.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayGetAtMetaMethod.java
- * /groovy-3-0-8-sources-1-jar/groovy/time/BaseDuration.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/Groovifier.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/StaticCompileTransformation.java
- *

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/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/TypeChooser.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodCallExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/SyntaxException.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/ast/tools/ImmutablePropertyUtils.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/util/TypeUtil.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/ImportCustomizer.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/MethodKey.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/powerassert/ValueRecorder.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/UnaryPlusExpression.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Tuple8.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/builder/Builder.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/IntWrapper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/GeneratedClosure.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/sc/IndyStaticTypesMultiTypeDispatcher.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/StaticCompilationMetadataKeys.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Tuple3.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/LambdaExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/FastArray.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/SpreadListEvaluatingException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/SharedVariableCollector.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/ClassStub.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/ParameterUtils.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DefaultCachedMethodKey.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Script.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CachedClosureClass.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MultipleSetterProperty.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/AnnotationNode.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/ExpressionStatement.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java
* /groovy-3-0-8-sources-1-jar/groovy/util/ConfigSlurper.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/AnnotatedNode.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/ParameterArray.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/InterfaceHelperClassNode.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/CategoryASTTransformation.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ScriptReference.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoFieldSite.java
*
/groovy-3-0-8-sources-1-jar/groovy/util/ResourceConnector.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesWriterController.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/StatementMetaTypeChooser.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/TraversalHelper.java
* /groovy-3-0-8-sources-1-jar/groovy/util/NodePrinter.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ReadWriteLockASTTransformation.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/GrabConfig.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ReferenceManager.java

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- * /groovy-3-0-8-sources-1-jar/groovy/cli/Unparsed.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/ClassExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/InheritConstructorsASTTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/CastExpression.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/KnownImmutable.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ScriptBytecodeAdapter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryLongExpressionHelper.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/VariableAccessReplacer.groovy
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/Selector.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/SecondPassExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/CachedClass.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/memoize/LRUCache.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/TemporaryMethodKey.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/CompilationUnitAware.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/ASTHelper.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/MethodNode.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/NAryOperationRewriter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/InnerClassVisitor.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/GeneratedMetaMethod.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/EmptyStatement.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/LazyConstructorNode.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/PrefixExpression.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/internal/util/UncheckedThrow.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/DecompiledClassNode.java
- * /groovy-3-0-8-sources-1-jar/groovy/beans/ListenerList.groovy
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DefaultGroovyStaticMethods.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/NamedParams.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/ArrayExpression.java
- *
- /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/Maps.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/MetaClassRegistryChangeEvent.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/ClosureUtils.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/io/NullWriter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/NotExpression.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/options/Visibility.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/builder/PostCompletionFactory.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/VisibilityOptions.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/Field.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/messages/SyntaxErrorMessage.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/StaticMetaClassSite.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/ObjectHolder.java
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- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ConversionHandler.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/RangeExpressionTransformer.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/TransformingCodeVisitor.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/BigIntegerMath.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/PluginDefaultGroovyMethods.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavacCompilerFactory.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/IndyGuardsFiltersAndSignatures.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/XStreamUtils.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyMain.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/GroovyTypeCheckingExtensionSupport.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ClassHelper.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/logging/Log4j2.java
- * /groovy-3-0-8-sources-1-jar/groovy/time/Duration.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/LexerAtnManager.java
- *
- /groovy-3-0-8-sources-1-jar/groovy/io/GroovyPrintStream.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/Token.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/AbstractTypeCheckingExtension.java
- * /groovy-3-0-8-sources-1-
- jar/org/codehaus/groovy/transform/sc/transformers/MethodCallExpressionTransformer.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/options/ImmutablePropertyHandler.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/IndyArrayAccess.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/GroovyStarter.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/TracingInterceptor.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/WideningCategories.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/TernaryExpression.java
- * /groovy-3-0-8-sources-1-jar/groovy/grape/Grape.java
- * /groovy-3-0-8-sources-1-jar/groovy/time/TimeDatumDependentDuration.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/CharArrayIterator.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/GrapeMain.groovy
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/OptimizerVisitor.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavaCompiler.java

- * /groovy-3-0-8-sources-1-jar/groovy/util/CharsetToolkit.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/GeneralUtils.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitComposer.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/BytecodeInstruction.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/GroovyClassVisitor.java
- * /groovy-3-0-8-sources-1-jar/groovy/transform/AutoCloneStyle.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/DefaultTypeTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PogoMetaMethodSite.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/RangeExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/io/FileReaderSource.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/GroovyASTTransformation.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/TypeHelper.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/StringWriterIOException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/AnnotationCollectorTransform.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ThreadManagedMetaBeanProperty.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/m12n/StandardPropertiesModuleFactory.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/SourceInfo.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/powerassert/SourceText.java
- * /groovy-3-0-8-sources-1-
- jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesBinaryExpressionMultiTypeDispatcher.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/MethodClosure.java
- *
- /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/InvokerHelper.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ShortCachedClass.java
- * /groovy-3-0-8-sources-1-jar/groovy/util/ObservableList.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/EnumTypeCheckingExtension.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/PluginDefaultGroovyMethods.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/memoize/CommonCache.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/AsmReferenceResolver.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/MissingMethodException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java
- * /groovy-3-0-8-sources-1-jar/groovy/cli/Option.java
- *
- /groovy-3-0-8-sources-1-jar/org/apache/groovy/internal/util/ReevaluatingReference.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/ConfigurationException.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/MethodHandleWrapper.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/VariableExpression.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ManagedConcurrentLinkedQueue.java
- * /groovy-3-0-8-sources-1-jar/groovy/inspect/Inspector.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/LongMath.java
- * /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/Antlr4ParserPlugin.java
- * /groovy-3-0-8-sources-1-jar/groovy/lang/MetaMethod.java
- * /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/TailRecursiveASTTransformation.groovy
- * /groovy-3-0-8-sources-1-jar/groovy/lang/GroovyClassLoader.java

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* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/NullCallSite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/Wrapper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/PropertyExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ArrayIterable.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/plugin/GroovyRunner.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/ASTParserException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/URLStreams.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/LabelVerifier.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/ThreadInterrupt.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/InnerClassCompletionVisitor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/DelegatingCustomizer.java
*
/groovy-3-0-8-sources-1-jar/groovy/util/FileTreeBuilder.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/Delegate.java
* /groovy-3-0-8-sources-1-jar/groovy/ui/GroovyMain.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/NodeMetaDataHandler.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/StringHelper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/AnnotationVisitor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ConcurrentReaderHashMap.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/AutoClone.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/NumberRange.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/GroovydocManager.java
* /groovy-3-0-8-sources-1-jar/groovy/grape/GrapeIvy.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/AntlrASTProcessor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/PostfixExpression.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/BooleanExpressionTransformer.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/ast/tools/ConstructorNodeUtils.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/genArrayUtil.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/GrabExclude.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/ClassGeneratorException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/ClassLoaderForClassArtifacts.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/BooleanWrapper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ArrayIterator.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Reference.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/GeneratedGroovyProxy.java
* /groovy-3-0-8-sources-1-jar/groovy/util/Expando.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/GenericsUtils.java

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* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/OperandStack.java
* /groovy-3-0-8-sources-1-jar/groovy/util/ResourceException.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Category.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ErrorCollecting.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/RuntimeParserException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/MethodCallerMultiAdapter.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewInstanceMetaMethod.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/DescriptiveErrorStrategy.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DateGroovyMethods.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/stc/ThirdParam.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/GroovyCallable.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/CacheableCallSite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
* /groovy-3-0-8-sources-1-jar/groovy/transform/stc/SimpleType.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ProxyGeneratorAdapter.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/GroovyClassValuePreJava7.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/AutoExternalize.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/Tuple13.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ASTNode.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodReferenceExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/FieldASTTransformation.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/TypeChecked.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/MetaArrayLengthProperty.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/Variable.java
* /groovy-3-0-8-sources-1-jar/groovy/util/ObservableSet.java
*
/groovy-3-0-8-sources-1-jar/groovy/transform/MapConstructor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitHelpersTuple.java
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global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

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* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
*
/groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java
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* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/java.g
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Format: one extension on each line without the leading "*, "
Listed below are default groovy source file extensions.

NOTE: This implementation
of supporting multiple file extensions is experimental and
the exact implementation details may vary when modularization gets introduced in
groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):

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/**

* The Groovy grammar is based on the official grammar for Java:

* <https://github.com/antlr/grammars-v4/blob/master/java/Java.g4>

*/

lexer grammar GroovyLexer;

options {

superClass = AbstractLexer;

}

@header {

import java.util.Deque;

import java.util.ArrayDeque;

import java.util.Map;

import java.util.HashMap;

```

import java.util.Set;
import java.util.HashSet;
import java.util.Collections;
import java.util.Arrays;
import java.util.stream.IntStream;
import java.util.logging.Logger;
import java.util.logging.Level;
import java.util.EmptyStackException;
import org.apache.groovy.util.Maps;
import static org.apache.groovy.parserantlr4.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

: [lLiIgG]

;

fragment

DecimalNumeral

: Zero

| NonZeroDigit (Digits? | Underscores Digits)

;

fragment

Digits

: Digit (DigitOrUnderscore* Digit)?

;

fragment

Digit

: Zero

| NonZeroDigit

;

fragment

NonZeroDigit

: [1-9]

;

fragment

DigitOrUnderscore

: Digit

| Underscore

;

fragment

Underscores

: Underscore+
;

fragment
Underscore
: '_'
;

fragment
HexNumeral
: Zero [xX] HexDigits
;

fragment
HexDigits
: HexDigit (HexDigitOrUnderscore* HexDigit)?
;

fragment
HexDigit
: [0-9a-fA-F]
;

fragment
HexDigitOrUnderscore
: HexDigit
| Underscore
;

fragment
OctalNumeral
: Zero Underscores? OctalDigits
;

fragment
OctalDigits
: OctalDigit
(OctalDigitOrUnderscore* OctalDigit)?
;

fragment
OctalDigit
: [0-7]
;

fragment
OctalDigitOrUnderscore
: OctalDigit

```

    | Underscore
;

fragment
BinaryNumeral
: Zero [bB] BinaryDigits
;

fragment
BinaryDigits
: BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
;

fragment
BinaryDigit
: [01]
;

fragment
BinaryDigitOrUnderscore
: BinaryDigit
| Underscore
;

// 3.10.2 Floating-Point Literals

FloatingPointLiteral
: ( DecimalFloatingPointLiteral
  | HexadecimalFloatingPointLiteral
  ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?
;

fragment
DecimalFloatingPointLiteral
: Digits Dot Digits ExponentPart? FloatTypeSuffix?
| Digits ExponentPart FloatTypeSuffix?
| Digits FloatTypeSuffix
;

fragment
ExponentPart
: ExponentIndicator SignedInteger
;

fragment
ExponentIndicator
: [eE]
;

```

```
fragment
SignedInteger
    : Sign? Digits
    ;
```

```
fragment
Sign
    : [+|-]
    ;
```

```
fragment
FloatTypeSuffix
    : [fFdDgG]
    ;
```

```
fragment
HexadecimalFloatingPointLiteral
    : HexSignificand BinaryExponent FloatTypeSuffix?
    ;
```

```
fragment
HexSignificand
    : HexNumeral Dot?
    | Zero [xX] HexDigits? Dot HexDigits
    ;
```

```
fragment
BinaryExponent
    : BinaryExponentIndicator SignedInteger
    ;
```

```
fragment
BinaryExponentIndicator
    : [pP]
    ;
```

```
fragment
Dot : '.'
    ;
```

// 3.10.3 Boolean Literals

```
BooleanLiteral
    : 'true'
    | 'false'
    ;
```

// 3.10.6 Escape Sequences for Character and String Literals

fragment

EscapeSequence

```
: Backslash [btnfrs""\\]
| OctalEscape
| UnicodeEscape
| DollarEscape
| LineEscape
;
```

fragment

OctalEscape

```
: Backslash OctalDigit
| Backslash OctalDigit OctalDigit
| Backslash ZeroToThree OctalDigit OctalDigit
;
```

// Groovy allows 1 or more u's after the backslash

fragment

UnicodeEscape

```
:
Backslash 'u' HexDigit HexDigit HexDigit HexDigit
;
```

fragment

ZeroToThree

```
: [0-3]
;
```

// Groovy Escape Sequences

fragment

DollarEscape

```
: Backslash Dollar
;
```

fragment

LineEscape

```
: Backslash LineTerminator
;
```

fragment

LineTerminator

```
: '\r'? '\n' | '\r'
;
```

fragment
SlashEscape
: Backslash Slash
;

fragment
Backslash
: '\\'
;

fragment
Slash
: '/'
;

fragment
Dollar
: '\$'
;

fragment
GStringQuotationMark
: ""
;

fragment
SqStringQuotationMark
: "\"
;

fragment
TdqStringQuotationMark
: """"
;

fragment
TsQStringQuotationMark
: "\\\"
;

fragment
DollarSlashyGStringQuotationMarkBegin
: '\$/'
;

fragment
DollarSlashyGStringQuotationMarkEnd

```
: '/'  
;
```

fragment

DollarSlashEscape

```
: '$/'  
;
```

fragment

DollarDollarEscape

```
: '$$'  
;
```

// 3.10.7 The Null Literal

NullLiteral

```
: 'null'  
;
```

// Groovy Operators

```
RANGE_INCLUSIVE   :  
'..';  
RANGE_EXCLUSIVE   : '..<';  
SPREAD_DOT         : '*.';  
SAFE_DOT           : '?.';  
SAFE_CHAIN_DOT     : '??.';  
ELVIS              : '?:';  
METHOD_POINTER     : '.'&';  
METHOD_REFERENCE   : '::';  
REGEX_FIND         : '=~';  
REGEX_MATCH        : '==~';  
POWER              : '**';  
POWER_ASSIGN       : '**=';  
SPACESHIP          : '<=>';  
IDENTICAL          : '==';  
NOT_IDENTICAL      : '!=';  
ARROW              : '->';
```

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary

```
NOT_INSTANCEOF    : '!instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?;  
NOT_IN            : '!in'      { isFollowedBy(_input, ' ', '\t', '\r', '\n', '[', '(', '{') }?;
```

// 3.11 Separators

```
LPAREN           : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);  
RPAREN           : ')' { this.exitParen(); } -> popMode;
```



```

LBRACE      : '{' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACE      : '}' { this.exitParen();
               } -> popMode;

LBRACK      : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK      : ']' { this.exitParen(); } -> popMode;

SEMI        : ';';
COMMA       : ',';
DOT         : Dot;

```

// 3.12 Operators

```

ASSIGN      : '=';
GT          : '>';
LT          : '<';
NOT         : '!';
BITNOT      : '~';
QUESTION    : '?';
COLON       : ':';
EQUAL       : '==';
LE          : '<=';
GE          : '>=';
NOTEQUAL    : '!=';
AND         : '&&';
OR          : '||';
INC         : '++';
DEC         : '--';
ADD         : '+';
SUB         : '-';
MUL         : '*';
DIV         : Slash;
BITAND      : '&';
BITOR       : '|';
XOR         : '^';
MOD         : '%';

```

```

ADD_ASSIGN  : '+=';
SUB_ASSIGN  : '-=';
MUL_ASSIGN  : '*=';
DIV_ASSIGN  : '/=';
AND_ASSIGN  : '&=';
OR_ASSIGN   : '|=';
XOR_ASSIGN  : '^=';
MOD_ASSIGN  : '%=';
LSHIFT_ASSIGN :

```

```
'<=<=';
RSHIFT_ASSIGN : '>>=';
URSHIFT_ASSIGN : '>>>=';
ELVIS_ASSIGN : '?=';
```

// 3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier

```
: JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
;
```

Identifier

```
: JavaLetter JavaLetterOrDigit*
;
```

fragment

IdentifierInGString

```
: JavaLetterInGString JavaLetterOrDigitInGString*
;
```

fragment

JavaLetter

```
: [a-zA-Z$_] // these are the "java letters" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
~[\u0000-\u007F\uD800-\uDBFF]
{ isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
[\uD800-\uDBFF] [\uDC00-\uDFFF]
{ Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;
```

fragment

JavaLetterInGString

```
: JavaLetter { _input.LA(-1) != '$' }?
;
```

fragment

JavaLetterOrDigit

```
: [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
~[\u0000-\u007F\uD800-\uDBFF]
{ isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
[\uD800-\uDBFF] [\uDC00-\uDFFF]
{ Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;
```

fragment

```

JavaLetterOrDigitInGString
: JavaLetterOrDigit { _input.LA(-1) != '$' }?
;

fragment
ShCommand
: ~[\r\n\uFFFF]*
;

//
// Additional symbols not defined in the lexical specification
//

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS : ([\t]+ | LineEscape+) -> skip
;

// Inside (...) and [...] but not {...}, ignore newlines.
NL : LineTerminator { this.ignoreTokenInsideParens(); }
;

// Multiple-line comments (including
// groovydoc comments)
ML_COMMENT
: '/' .*? '/' { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
;

// Single-line comments
SL_COMMENT
: '/' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
: '#!' { require(0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); } ShCommand
(LineTerminator '#!' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
: .
;

```

Found in path(s):

* /groovy-3-0-8-sources-1-jar/GroovyLexer.g4

1.411 groovy-json 3.0.8

1.411.1 Available under license :

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

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one
 * or more contributor license agreements. See the NOTICE file
 * distributed with this work for additional information
 * regarding copyright ownership. The ASF licenses this file
 * to you under the Apache License, Version 2.0 (the
 * "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing,
 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

```
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/BaseJsonParser.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonException.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMap.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CacheType.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonParser.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Value.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueContainer.java
* /groovy-json-3-0-8-sources-jar/groovy/json/StreamingJsonBuilder.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharacterSource.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharScanner.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Cache.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/NumberValue.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringService.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharBuf.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/IO.java
*
```

```

/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Exceptions.java
* /groovy-json-3-0-8-sources-jar/groovy/json/DefaultJsonGenerator.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserCharArray.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/SimpleCache.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringServiceFactory.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonToken.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/FastStringUtils.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/DefaultFastStringService.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonOutput.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonBuilder.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyValueMap.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonStringDecoder.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ByteScanner.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Type.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserLax.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurperClassic.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurper.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharSequenceValue.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMapImpl.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonFastParser.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueList.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ReaderCharacterSource.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyMap.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonLexer.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ArrayUtils.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonTokenType.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonParserType.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/MapItemValue.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Sys.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Dates.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonDelegate.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonGenerator.java
* /groovy-json-3-0-8-sources-jar/groovy/json/StringEscapeUtils.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Chr.java
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#
org.apache.groovy.json.DefaultFastStringServiceFactory

Found in path(s):
* /groovy-json-3-0-8-sources-jar/META-INF/services/org.apache.groovy.json.FastStringServiceFactory
```

1.412 jackson-dataformat-yaml 2.10.4

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1.413 json 20160810

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1.414 snake-yaml 1.21

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1.415 log4j-api 2.17.1

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1.416 apache-log4j 2.17.1

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1.420 snake-yaml 1.26

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1.421 jaxb-api 2.2.11

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- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessType.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMimeType.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMixed.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/W3CDomHandler.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessOrder.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/DomHandler.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/SchemaOutputResolver.java
- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyElement.java
- *

/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentMarshaller.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaType.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementWrapper.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlList.java

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- * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/package.html
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* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerHandler.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterInterface.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEvent.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/JAXBSource.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationException.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/Element.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/ContextFinder.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshalException.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBContext.java
*
/jaxb-api-2-2-11-sources-jar/javax/xml/bind/NotIdentifiableEvent.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/ValidationEventCollector.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/Marshaller.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverter.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/Messages.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/Messages.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEventLocator.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/JAXBResult.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/Validator.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEventHandler.java
*
/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventImpl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBException.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
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* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSeeAlso.java
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 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchema.java
 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlNsForm.java
 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlRootElement.java
 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlNs.java
 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElement.java
 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
 * /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlIDREF.java

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* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElements.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/PrintConversionEvent.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlTransient.java
*
/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementRef.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlEnum.java
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* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlEnumValue.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlType.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementDecl.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlValue.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlRegistry.java
*
/jaxb-api-2-2-11-sources-jar/javax/xml/bind/PropertyException.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttribute.java
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
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* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/Messages.properties
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/Messages.properties
* /jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/Messages.properties

```

1.422 commons-fileupload 1.2

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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/logging/Log.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java

*

/hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/engine/messageinterpolation/el/SimpleELContext.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedVariableMapper.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedFunctionMapper.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/engine/messageinterpolation/el/RootResolver.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/cfg/context/AnnotationProcessingOptions.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/logging/Messages.java

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- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/scriptengine/ScriptEvaluatorFactory.java
- *
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/scriptengine/ScriptEvaluator.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/resourceloading/AggregateResourceBundleLocator.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/resourceloading/CachingResourceBundleLocator.java
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- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/engine/resolver/CachingTraversableResolverForSingleValidation.java
- *
- /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/DecimalMaxValidatorForNumber.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/engine/groups/DefaultValidationOrder.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/DigitsValidatorForNumber.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/FutureValidatorForDate.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForCharSequence.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/util/privilegedactions/GetMethods.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/aggregated/BeanMetaDataImpl.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/descriptor/BeanDescriptorImpl.java
- *
- /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/DigitsValidatorForCharSequence.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForArraysOfDouble.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/PastValidatorForReadableInstant.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/Length.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/constraintvalidators/AssertFalseValidator.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/util/privilegedactions/GetClassLoader.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/util/privilegedactions/GetMethod.java

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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForArraysOfInt.java
*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/xml/ValidationBootstrapParameters.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/groups/ValidationOrder.java
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jar/org/hibernate/validator/internal/engine/MessageInterpolatorContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/XmlMappingParser.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/HibernateValidatorConfiguration.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/PatternValidator.java
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/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/core/ConstraintOrigin.java
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* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/IdentitySet.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintViolationCreationContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/Email.java
* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
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*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/privilegedactions/LoadClass.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ConstraintViolationImpl.java
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* /hibernate-validator-5-1-3-final-sources-7-
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*
/hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForArraysOfPrimitives.java

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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/PastValidatorForCalendar.java
* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
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jar/org/hibernate/validator/internal/constraintvalidators/NullValidator.java
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* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/Range.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ValidatorContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-
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/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/BeanMetaData.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForMap.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/descriptor/PropertyDescriptorImpl.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/CreditCardNumber.java

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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/path/PathImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/resolver/JPATraversableResolver.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationParameter.java
* /hibernate-validator-5-1-3-final-sources-7-
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*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetMethodFromPropertyName.java
* /hibernate-validator-5-1-3-final-sources-7-
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/HibernateValidator.java
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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredConstructor.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethods.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForArrayOfByte.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/MinValidatorForCharSequence.java
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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetResolvedMemberMethods.java
*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/valuehandling/package-info.java
* /hibernate-validator-5-1-3-final-sources-7-

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jar/org/hibernate/validator/internal/util/privilegedactions/Unmarshal.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/Unwrapable.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/spi/valuehandling/ValidatedValueUnwrapper.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/NewJaxbContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/valuehandling/UnwrapValidatedValue.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/EANDef.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetResource.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/Mod10CheckDef.java
*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/spi/valuehandling/package-info.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/Mod11CheckDef.java
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/group/GroupSequenceProvider.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/TypeConstraintMappingContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/br/CPF.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/LuhnCheck.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/ConstraintMappingContextImplBase.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/Mod11CheckValidator.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/Cascadable.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/ExecutableConstraintMappingContextImpl.java

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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/PropertyConstraintMappingContext.java
*
    /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/PropertyTarget.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/HibernateValidatorFactory.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/Mod11Check.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/ReturnValueConstraintMappingContext.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/ParameterConstraintMappingContext.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/MethodConstraintMappingContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/MethodTarget.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/LuhnCheckValidator.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/ReturnValueTarget.java
*
    /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/ModCheck.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/br/CNPJ.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/ModCheckBase.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/HibernateValidatorContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/ParameterTarget.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethod.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/raw/BeanConfiguration.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/br/TituloEleitoral.java
*
    /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/TypeTarget.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/Mod10CheckValidator.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/ModCheckValidator.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/Mod10Check.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/provider/MetaDataProviderKeyedByClassName.java
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/EAN.java
*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/ClassLoadingHelper.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/constraintvalidators/EANValidator.java
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jar/org/hibernate/validator/internal/metadata/raw/ConstrainedParameter.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/CollectionHelper.java

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/hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/metadata/raw/ConstrainedExecutable.java

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*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/descriptor/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/cfg/context/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/aggregated/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/raw/package.html
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*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraintvalidation/HibernateConstraintValidatorContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/EscapedState.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/ParserState.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/BeginState.java

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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/MessageState.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/CrossParameterConstraintMappingContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/InterpolationTermType.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/InterpolationTerm.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/ELState.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/FormatterWrapper.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/CrossParameterConstraintMappingContext.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContext.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/MessageDescriptorFormatException.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/TokenCollector.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/CrossParameterTarget.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/LocalizedMessage.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/parameternameprovider/ParanamerParameterNameProvider.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/InterpolationTermState.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/context/ConstructorTarget.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/TokenIterator.java
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/ReflectionHelper.java

*

/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ValidatorFactoryImpl.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/core/ConstraintHelper.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/URLDef.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/constraintvalidators/FutureValidatorForReadableInstant.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/NotBlank.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/constraintvalidators/ScriptAssertValidator.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/constraintvalidators/FutureValidatorForReadablePartial.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ConfigurationImpl.java

*

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jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java

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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/ExecutableHelper.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/util/annotationfactory/AnnotationDescriptor.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/util/annotationfactory/AnnotationProxy.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/constraintvalidators/MaxValidatorForNumber.java

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 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/groups/package.html
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 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/resourceloading/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/scriptengine/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/messageinterpolation/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/resolver/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/constraintvalidators/package.html
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/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/location/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/privilegedactions/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/provider/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/spi/resourceloading/package.html
 * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/package.html
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 */
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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 <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> 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):

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

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Found in path(s):

* /hibernate-validator-5-1-3-final-sources-7-jar/META-INF/validation-configuration-1.0.xsd

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* /hibernate-validator-5-1-3-final-sources-7-jar/META-INF/validation-mapping-1.1.xsd
* /hibernate-validator-5-1-3-final-sources-7-jar/META-INF/validation-configuration-1.1.xsd

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Found in path(s):

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/PatternDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/privilegedactions/NewSchema.java
*
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/resolver/DefaultTraversableResolver.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/cfg/context/ReturnValueConstraintMappingContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/NotEmptyDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/LengthDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/Version.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/RangeDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/cfg/context/PropertyConstraintMappingContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/DecimalMaxDef.java
*
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/FutureDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/MinDef.java

```

* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/TypeConstraintMappingContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/SizeDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/ConstraintDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/NotNullDef.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/NotNullValidator.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/EmailDef.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/PastValidatorForReadablePartial.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/GenericConstraintDef.java
*
    /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/AssertTrueDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/CompositionType.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/ConstraintComposition.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/DigitsDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/CreditCardNumberDef.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/NotBlankValidator.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintTree.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
*
    /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/ParameterConstraintMappingContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/DefaultConstraintMapping.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/privilegedactions/ConstructorInstance.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/AssertFalseDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/ConstraintMapping.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/ScriptAssertDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/NullDef.java
*
    /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/NotBlankDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/MaxDef.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/PastDef.java
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jar/org/hibernate/validator/internal/constraintvalidators/SafeHtmlValidator.java
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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.
*/

```

Found in path(s):

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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraints/URL.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/URLValidator.java
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* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/VoidMethodsMustNotBeReturnValueConstrained.java
*
 /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/xml/ConstrainedParameterBuilder.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/classhierarchy/Filters.java
* /hibernate-validator-5-1-3-final-sources-7-

```

```

jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/MethodConfigurationRule.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineParameterConstraints.j
ava
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/MetaConstraintBuilder.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/messageinterpolation/HibernateMessageInterpolatorContext.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/ConstrainedTypeBuilder.java
*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/classhierarchy/Filter.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/core/AnnotationProcessingOptions.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/ScriptAssertContext.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/cfg/context/GroupConversionTargetContext.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/xml/ConstrainedExecutableBuilder.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/OverridingMethodMustNotAlterParameterConstraints.j
ava
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/GroupConversionBuilder.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/GroupConversionTargetContextImpl.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/ConstrainedFieldBuilder.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/ReturnValueMayOnlyBeMarkedOnceAsCascadedPerH
ierarchyLine.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/constraintvalidators/ParameterScriptAssertValidator.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/StringHelper.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/CascadableConstraintMappingContextImplBase.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/ConstrainedGetterBuilder.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/util/classhierarchy/ClassHierarchyHelper.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineGroupConversionForC
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- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java
- *
- /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/aggregated/ValidatableParametersMetaData.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/raw/ExecutableElement.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/XmlParserHelper.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/aggregated/GroupConversionHelper.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/groups/Sequence.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/facets/Cascadable.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/metadata/descriptor/ReturnValueDescriptorImpl.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorManager.java
- *
- /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/facets/Validatable.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/engine/DefaultParameterNameProvider.java
- * /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/ModUtil.java
- * /hibernate-validator-5-1-3-final-sources-7-
- jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredConstructors.java
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* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/resourceloading/DelegatingResourceBundleLocator.java

*

/hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/spi/resourceloading/ResourceBundleLocator.java

* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ValidationContext.java

* /hibernate-validator-5-1-3-final-sources-7-

jar/org/hibernate/validator/internal/metadata/aggregated/UnconstrainedEntityMetaDataSingleton.java

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*
/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/facets/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/constraintvalidation/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/messageinterpolation/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/classhierarchy/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraintvalidation/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/core/package.html
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/package.html
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jar/org/hibernate/validator/internal/metadata/descriptor/ExecutableDescriptorImpl.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/descriptor/ParameterDescriptorImpl.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/provider/ProgrammaticMetaDataProvider.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/provider/MetaDataProvider.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/BeanMetaDataManager.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/ConstraintMetaData.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/raw/ConstrainedField.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/ParameterMetaData.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/cfg/context/ConfiguredConstraint.java
*
/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/provider/XmlMetaDataProvider.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/ExecutableMetaData.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/raw/AbstractConstrainedElement.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/raw/ConfigurationSource.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/AbstractConstraintMetaData.java
* /hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/raw/ConstrainedType.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/aggregated/PropertyMetaData.java
* /hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/internal/metadata/raw/ConstrainedElement.java
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1.426 resilience4j-circuitbreaker 1.7.1

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jar/io/github/resilience4j/circuitbreaker/internal/InMemoryCircuitBreakerRegistry.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnErrorEvent.java
*
/resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/AbstractCircuitBreakerEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerRegistry.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerConfig.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/CallNotPermittedException.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnIgnoredErrorEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnCallNotPermittedEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java
*
/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerEvent.java
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* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java
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1.427 resilience4j-core 1.7.1

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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/lang/Nullable.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventPublisher.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventProcessor.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/StopWatch.java

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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/SupplierUtils.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/StringUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CheckFunctionUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ClassUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CompletionStageUtils.java

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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/RegistryEvent.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/AbstractRegistryEvent.java
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jar/io/github/resilience4j/core/ContextAwareScheduledThreadPoolExecutor.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/NamingThreadFactory.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ContextPropagator.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Measurement.java
*
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/PartialAggregation.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/SlidingTimeWindowMetrics.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/AbstractAggregation.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Metrics.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/FixedSizeSlidingWindowMetrics.java
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1.428 poi 3.13

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[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

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```
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* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/OsgiBundleResource.java
*
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/OsgiBundleResourceLoader.java
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/internal/resolver/PackageAdminResolver.java
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/OsgiBundleResourcePatternResolver.java
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/internal/resolver/DependencyResolver.java
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/UrlContextResource.java
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/internal/OsgiUtils.java
* /spring-osgi-io-1-2-1-sources-3-jar/org/springframework/osgi/io/internal/OsgiHeaderUtils.java
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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/BundleDelegatingClassLoader.java
*
/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/LocalBundleContextAdvice.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/OsgiPlatformDetector.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/LocalBundleContext.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/bundle/BundleFactoryBean.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/BundleBeanDefinitionParser.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/ReferenceBeanDefinitionParser.java
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- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/importer/support/AbstractServiceImporterProxyFactoryBean.java
- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/OsgiDefaultsDefinition.java
- *
- /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/OsgiFilterUtils.java
- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/internal/classloader/CachingBundleClassLoaderFactory.java
- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceProxyCreator.java
- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/internal/adapters/CustomListenerAdapterUtils.java
- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/event/OsgiBundleContextFailedEvent.java
- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/compendium/config/ConfigPropertiesDefinitionParser.java
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- * /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/compendium/internal/cm/ManagedServiceInstanceTrackerPostProcessor.java

```

*
/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/exporter/OsgiServiceRegistrationListener.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/exporter/support/internal/controller/ExporterController.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/event/ApplicationListenerAdapter.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/CollectionBeanDefinitionParser.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/internal/util/ConventionsCallback.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/aop/SwappingServiceReferenceProxy.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceStaticInterceptor.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/cm/ConfigAdminPropertiesFactoryBean.java
*
/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/util/OsgiServiceBindingUtils.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/exporter/support/internal/support/ServiceRegistrationDecorator.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/ServiceReferenceEditor.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/internal/cm/ManagedServiceFactoryFactoryBean.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/internal/cm/ContainerManagedUpdate.java
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jar/org/springframework/osgi/context/support/AbstractOsgiBundleApplicationContext.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceDynamicInterceptor.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/compendium/internal/cm/UpdateCallback.java
*
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jar/org/springframework/osgi/service/importer/support/internal/controller/ImporterController.java
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jar/org/springframework/osgi/service/exporter/support/internal/support/PublishingServiceFactory.java
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jar/org/springframework/osgi/service/importer/support/internal/collection/DynamicSortedSet.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/internal/ReflectionUtils.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/aop/ImportedOsgiServiceProxyAdvice.java
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jar/org/springframework/osgi/service/dependency/internal/MandatoryDependencyBeanPostProcessor.java
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jar/org/springframework/osgi/service/importer/support/internal/aop/StaticServiceReferenceProxy.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/internal/classloader/BundleClassLoaderFactory.java
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```

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/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/event/OsgiBundleApplicationContextListener.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/ServiceProxyDestroyedException.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/OsgiServiceLifecycleListener.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/event/OsgiBundleApplicationContextEventMulticasterAdapter.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/support/OsgiPropertyEditorRegistrar.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/importer/OsgiServiceDependency.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/collection/comparator/ServiceReferenceComparator.
java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/collection/OsgiServiceCollection.java
*
/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/config/UpdateStrategyAttributeCallback.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/event/OsgiServiceDependencyEvent.java
* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-
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jar/org/springframework/osgi/compendium/internal/cm/ConfigurationAdminManager.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/DebugUtils.java
*
/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/collection/OsgiServiceSortedList.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/collection/DynamicSortedList.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/aop/InfrastructureOsgiProxyAdvice.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/internal/classloader/ClassLoaderFactory.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/bundle/BundleAction.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/internal/classloader/CachingAopClassLoaderFactory.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/ServiceUnavailableException.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/importer/ServiceReferenceProxy.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/exporter/support/ExportContextClassLoader.java
*

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/spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/internal/BeanFactoryUtils.java
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jar/org/springframework/osgi/config/internal/adapters/OsgiServiceRegistrationListenerAdapter.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/OsgiBundleUtils.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/importer/support/CollectionType.java
* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/AbstractReferenceDefinitionParser.java
*
/spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/importer/support/Cardinality.java
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* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/util/internal/aop/ProxyUtils.java
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/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/internal/cm/UpdateMethodAdapter.java
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* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/event/OsgiServiceDependencyWaitEndedEvent.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/support/internal/OsgiBundleScope.java
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jar/org/springframework/osgi/service/importer/support/internal/support/RetryTemplate.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/internal/util/ServiceParsingUtils.java
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/spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/support/DelegatedEntityResolver.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/event/OsgiBundleApplicationContextEvent.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/collection/OsgiServiceSortedSet.java

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* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/internal/cm/BeanManagedUpdate.java
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* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/AbstractOsgiServiceImportFactoryBean.java
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jar/org/springframework/osgi/config/internal/util/StandardAttributeCallback.java
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*
/spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/OsgiListenerUtils.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/support/ServiceWrapper.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/BundleContextAware.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/DependencyInitializationAwareBeanPostProcessor.java
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* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/exporter/support/internal/controller/ExporterInternalActions.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/exporter/support/AbstractOsgiServiceExporter.java
*
/spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/config/ManagedPropertiesDefinitionParser.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/event/OsgiBundleContextRefreshedEvent.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/exporter/support/AutoExport.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/support/ContextClassLoaderProvider.java
* /spring-osgi-core-1-2-1-sources-2-

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jar/org/springframework/osgi/config/internal/util/PropertyRefAttributeCallback.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/OsgiServiceReferenceUtils.java
* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/compendium/internal/cm/UpdateStrategy.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/internal/ClassUtils.java
*
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jar/org/springframework/osgi/compendium/config/CompendiumNamespaceHandler.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/compendium/internal/cm/CMUtils.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/internal/util/ServiceAttributeCallback.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/OsgiException.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/internal/MapBasedDictionary.java
* /spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/internal/PrivilegedUtils.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/event/OsgiServiceDependencyWaitTimedOutEvent.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/internal/collection/CollectionProxy.java
*
/spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/LogUtils.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/internal/cm/ManagedServiceBeanManager.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/OsgiBundleApplicationContextExecutor.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/DependencyAwareBeanFactoryPostProcessor.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/OsgiServiceProxyFactoryBean.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/config/internal/util/MethodUtils.java
* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/context/support/TrackingUtil.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/compendium/config/ManagedServiceFactoryDefinitionParser.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/dependency/internal/DefaultMandatoryDependencyManager.java
*
/spring-osgi-core-1-2-1-sources-2-
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* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/importer/support/DisposableBeanRunnableAdapter.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/internal/classloader/InternalAopClassLoaderFactory.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/service/dependency/internal/MandatoryServiceDependencyManager.java
* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/support/DefaultContextClassLoaderProvider.java

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* /spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/exporter/support/BeanNameServicePropertiesResolver.java
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* /spring-osgi-core-1-2-1-sources-2-
jar/org/springframework/osgi/context/DelegatedExecutionOsgiBundleApplicationContext.java

```

1.431 junit 4.5

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1.432 jaeger-thrift 0.28.0

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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/GuaranteedThroughputSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Http.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/UnsupportedFormatException.java
*
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/Sender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/CompositeReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/RateLimiter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyTracerStateStringException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/InMemoryReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyIpException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SenderException.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/HttpSender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Timer.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/LoggingReporter.java
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/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/OperationSamplingParameters.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Tracer.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RateLimitingSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/PerOperationSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/TextMapCodec.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/ThriftSender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/protocols/JaegerThriftSpanConverter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/RateLimitingSamplingStrategy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Configuration.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/SpanContext.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/NotFourOctetsException.java
*
/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Utils.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/PerOperationSamplingParameters.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metric.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ProbabilisticSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Tag.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/SystemClock.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Clock.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ConstSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/MalformedTracerStateStringException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/Sampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metrics.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/HttpSamplingManager.java
*
/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RemoteControlledSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/Reporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingStatus.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Counter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Gauge.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/SamplingStrategyResponse.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SamplingStrategyErrorException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Span.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/LogData.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/NoopReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingManager.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/Extractor.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/http/BaggageRestrictionResponse.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManager.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/B3TextMapCodec.java
*
/jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageSetter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Java6CompatibleThreadLocalRandom.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Reference.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/BaggageRestrictionManagerException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/HttpBaggageRestrictionManagerProxy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/HexCodec.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/RemoteBaggageRestrictionManager.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/DefaultBaggageRestrictionManager.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/Codec.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/InMemoryMetricsFactory.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/MetricsFactory.java
*
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/CompositeCodec.java

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1.434 jsr305 2.0.1

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* /jsr305-2-0-1-2-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-2-0-1-2-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-2-0-1-2-jar/javax/annotation/concurrent/Immutable.java

```

1.435 stax-ex 1.8

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```

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8

```


Implementation-Vendor-Id: org.jvnet.staxex
Implementation-URL: <http://stax-ex.java.net/>
Implementation-Build-Id: \${scmBranch}-\${buildNumber}, \${timestamp}
Bnd-LastModified: 1524563042303
Bundle-Description: Extensions to JSR-173 StAX API.
Bundle-License: https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html
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

Found in path(s):

* /stax-ex-1-8-9-jar/META-INF/MANIFEST.MF

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* /stax-ex-1-8-9-jar/META-INF/maven/org.jvnet.staxex/stax-ex/pom.xml

1.436 classmate 1.0.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.437 grpc-protobuf 1.9.0

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* /grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/StatusProto.java

* /grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java

* /grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/package-info.java

* /grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java

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* /grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java

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1.438 grpc-netty 1.9.0

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* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GracefulCloseCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ClientTransportLifecycleManager.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/StreamIdHolder.java
*
/grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalHandlerSettings.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalNettyServerBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/HandlerSettings.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalNettyChannelBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ForcefulCloseCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/AbstractHttp2Headers.java
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 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyWritableBufferAllocator.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/package-info.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyChannelProvider.java
 *
 /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/CancelServerStreamCommand.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/AbstractNettyHandler.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/JettyTlsUtil.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerProvider.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/WriteQueue.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyClientStream.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GrpcSslContexts.java
 * /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ProtocolNegotiators.java
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* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/SendResponseHeadersCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NegotiationType.java
*
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/CreateStreamCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/CancelClientStreamCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerHandler.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/Utils.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyReadableBuffer.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerStream.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyChannelBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/SendGrpcFrameCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerTransport.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServer.java
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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) \$

1.440 drools-reteoo 6.5.0.Final

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```
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteWorkingMemoryEntryPoint.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteConditionalBranchNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteFromNode.java
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*
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteEvalConditionNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteQueryTerminalNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteJoinNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/RetePropagationContextFactory.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteAlphaNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteNotNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteAgendaGroupQueueImpl.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteBetaNodeUtils.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteQueryElementNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteWorkingMemoryFactory.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteEntryPointNode.java
*
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/RetePriorityQueueAgendaGroupFactory.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteRightInputAdapterNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteBeliefSystemFactory.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteRuleTerminalNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteWorkingMemory.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteLeftInputAdapterNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteAccumulateNode.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/beliefsystem/simple/ReteSimpleBeliefSystem.java
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* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteAgenda.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/RetePropagationList.java
* /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/RetePropagationContext.java

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- * /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/common/ReteAgendaFactory.java
- * /drools-reteoo-6-5-0-final-sources-2-jar/org/drools/reteoo/nodes/ReteSlidingLengthWindow.java

1.441 jgraph-x 1.13.0.0

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1.442 swagger-jersey2-jaxrs 1.5.1

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