This appendix contains the CISCO-SYSLOG-MIB.

The MWTM Event API WSDL definition might be found at any of the following locations:

{MWTM_INSTALL_BASEDIR}/apache/htdocs/mibs/CISCO-SYSLOG-MIB.my


CISCO-SYSLOG-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY,
    NOTIFICATION-TYPE,
    OBJECT-TYPE,
ciscoSyslogMIB MODULE-IDENTITY
LAST-UPDATED"9508070000Z"
ORGANIZATION"Cisco Systems, Inc."
CONTACT-INFO
"Cisco Systems
Customer Service
Postal: 170 W Tasman Drive
San Jose, CA 95134
USA
Tel: +1 800 553-NETS
E-mail: cs-snmp@cisco.com"
DESCRIPTION
"The MIB module to describe and store the system messages
generated by the IOS."
 ::= \{ ciscoMgmt 41 \}
ciscoSyslogMIBobjects OBJECT IDENTIFIER ::= \{ ciscoSyslogMIB 1 \}

Subgroups
clogBasicOBJECT IDENTIFIER ::= \{ ciscoSyslogMIBObjects 1 \}
clogHistoryOBJECT IDENTIFIER ::= \{ ciscoSyslogMIBObjects 2 \}

Textual Conventions
SyslogSeverity ::= TEXTUAL-CONVENTION
STATUScurrent
DESCRIPTION
"The severity of a syslog message. The enumeration
values are equal to the values that syslog uses + 1.
For example, with syslog, emergency=0."
SYNTAXINTEGER { emergency(1),
               alert(2),
               critical(3),
               error(4),
               warning(5),
               notice(6),
               info(7),
               debug(8) }

-- Basic syslog objects
clogNotificationsSent OBJECT-TYPE
SYNTAX Counter32
UNITS "notifications"
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
  "The number of clogMessageGenerated notifications that
  have been sent. This number may include notifications
  that were prevented from being transmitted due to
  reasons such as resource limitations and/or
  non-connectivity. If one is receiving notifications,
  one can periodically poll this object to determine if
  any notifications were missed. If so, a poll of the
  clogHistoryTable might be appropriate."
::= { clogBasic 1 }

clogNotificationsEnabled OBJECT-TYPE
  SYNTAX          TruthValue
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION
  "Indicates whether clogMessageGenerated notifications
  will or will not be sent when a syslog message is
  generated by the device. Disabling notifications
  does not prevent syslog messages from being added
  to the clogHistoryTable."
DEFVAL { false }
::= { clogBasic 2 }

clogMaxSeverity OBJECT-TYPE
  SYNTAX          SyslogSeverity
  MAX-ACCESS      read-write
  STATUS          current
  DESCRIPTION
  "Indicates which syslog severity levels will be
  processed. Any syslog message with a severity value
  greater than this value will be ignored by the agent.
  Note: severity numeric values increase as their
  severity decreases, e.g. error(4) is more severe than
  debug(8)."
DEFVAL { warning }
::= { clogBasic 3 }

clogMsgIgnores OBJECT-TYPE
  SYNTAX          Counter32
  UNITS "messages"
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
  "The number of syslog messages which were ignored. A
  message will be ignored if it has a severity value
  greater than clogMaxSeverity."
::= { clogBasic 4 }

clogMsgDrops OBJECT-TYPE
  SYNTAX          Counter32
  UNITS "messages"
  MAX-ACCESS      read-only
  STATUS          current
  DESCRIPTION
  "The number of syslog messages which could not be
  processed due to lack of system resources. Most
  likely this will occur at the same time that syslog
  messages are generated to indicate this lack of
  resources. Increases in this object's value may serve
  as an indication that system resource levels should be
examined via other mib objects. A message that is dropped will not appear in the history table and no notification will be sent for this message."

::= { clogBasic 5 }

-- Syslog message history table

clogHistTableMaxLength OBJECT-TYPE
SYNTAX   Integer32 (0..500)
UNITS "entries"
MAX-ACCESS read-write
STATUS current
DESCRIPTION "The upper limit on the number of entries that the clogHistoryTable may contain. A value of 0 will prevent any history from being retained. When this table is full, the oldest entry will be deleted and a new one will be created."
DEFVAL { 1 }

::= { clogHistory 1 }

clogHistMsgsFlushed OBJECT-TYPE
SYNTAX   Counter32
UNITS "messages"
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The number of entries that have been removed from the clogHistoryTable in order to make room for new entries. This object can be utilized to determine whether your polling frequency on the history table is fast enough and/or the size of your history table is large enough such that you are not missing messages."

::= { clogHistory 2 }

clogHistoryTable OBJECT-TYPE
SYNTAX   SEQUENCE OF ClogHistoryEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "A table of syslog messages generated by this device. All 'interesting' syslog messages (i.e. severity <= clogMaxSeverity) are entered into this table."

::= { clogHistory 3 }

clogHistoryEntry OBJECT-TYPE
SYNTAX   ClogHistoryEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "A syslog message that was previously generated by this device. Each entry is indexed by a message index."
INDEX{ clogHistIndex }

::= { clogHistoryTable 1 }

ClogHistoryEntry ::= SEQUENCE {
  clogHistIndex  Integer32,
  clogHistFacility DisplayString,
  clogHistSeverity SyslogSeverity,
clogHistIndex OBJECT-TYPE
   SYNTAX          Integer32 (1..2147483647)
   MAX-ACCESS      not-accessible
   STATUS          current
   DESCRIPTION
   "A monotonically increasing integer for the sole purpose of indexing messages. When it reaches the maximum value the agent flushes the table and wraps the value back to 1."
   ::= { clogHistoryEntry 1 }

clogHistFacility OBJECT-TYPE
   SYNTAX          DisplayString (SIZE (1..20))
   MAX-ACCESS      read-only
   STATUS          current
   DESCRIPTION
   "Name of the facility that generated this message. For example: 'SYS'."
   ::= { clogHistoryEntry 2 }

clogHistSeverity OBJECT-TYPE
   SYNTAX          SyslogSeverity
   MAX-ACCESS      read-only
   STATUS          current
   DESCRIPTION
   "The severity of the message."
   ::= { clogHistoryEntry 3 }

clogHistMsgName OBJECT-TYPE
   SYNTAX          DisplayString (SIZE (1..30))
   MAX-ACCESS      read-only
   STATUS          current
   DESCRIPTION
   "A textual identification for the message type. A facility name in conjunction with a message name uniquely identifies a message type."
   ::= { clogHistoryEntry 4 }

clogHistMsgText  OBJECT-TYPE
   SYNTAX          DisplayString (SIZE (1..255))
   MAX-ACCESS      read-only
   STATUS          current
   DESCRIPTION
   "The text of the message. If the text of the message exceeds 255 bytes, the message will be truncated to 254 bytes and a '*' character will be appended - indicating that the message has been truncated."
   ::= { clogHistoryEntry 5 }

clogHistTimestamp  OBJECT-TYPE
   SYNTAX          TimeStamp
   MAX-ACCESS      read-only
   STATUS          current
   DESCRIPTION
   "The value of sysUpTime when this message was generated."
   ::= { clogHistoryEntry 6 }
-- notifications

ciscoSyslogMIBNotificationPrefix OBJECT IDENTIFIER ::= \{ ciscoSyslogMIB 2 \}
ciscoSyslogMIBNotifications OBJECT IDENTIFIER ::= \{ ciscoSyslogMIBNotifications 0 \}

clogMessageGenerated NOTIFICATION-TYPE
OBJECTS {clogHistFacility,
clogHistSeverity,
clogHistMsgName,
clogHistMsgText,
clogHistTimestamp}
STATUS current
DESCRIPTION
"When a syslog message is generated by the device a
clogMessageGenerated notification is sent. The
sending of these notifications can be enabled/disabled
via the clogNotificationsEnabled object."
::= \{ ciscoSyslogMIBNotifications 1 \}

-- conformance information

ciscoSyslogMIBConformance OBJECT IDENTIFIER ::= \{ ciscoSyslogMIB 3 \}
ciscoSyslogMIBCompliances OBJECT IDENTIFIER ::= \{ ciscoSyslogMIBCompliances 1 \}
ciscoSyslogMIBGroups OBJECT IDENTIFIER ::= \{ ciscoSyslogMIBGroups 1 \}

-- compliance statements

ciscoSyslogMIBCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION
"The compliance statement for entities which implement
the Cisco syslog MIB."
MODULE-- this module
MANDATORY-GROUPS \{ ciscoSyslogMIBGroup \}
::= \{ ciscoSyslogMIBCompliances 1 \}

-- units of conformance

ciscoSyslogMIBGroup OBJECT-GROUP
OBJECTS {clogNotificationsSent,
clogNotificationsEnabled,
clogMaxSeverity,
clogMsgIgnores,
clogMsgDrops,
clogHistTableMaxLength,
clogHistMsgsFlushed,
clogHistFacility,
clogHistSeverity,
clogHistMsgName,
clogHistMsgText,
clogHistTimestamp}
STATUS current
DESCRIPTION
"A collection of objects providing the syslog MIB capability."
::= \{ ciscoSyslogMIBGroups 1 \}

END