



Ultra M MIB



Note

Not all aspects of this MIB are supported in this release. Refer to [Event and Syslog Management Within the Ultra M Solution](#) for information on the capabilities supported in this release.

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-- *****
-- CISCO-ULTRAM-MIB.my
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--
-- *****
CISCO-ULTRAM-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY
    OBJECT-TYPE
    NOTIFICATION-TYPE
    Unsigned32
        FROM SNMPv2-SMI
    MODULE-COMPLIANCE
    NOTIFICATION-GROUP
    OBJECT-GROUP
        FROM SNMPv2-CONF
    TEXTUAL-CONVENTION
    DateAndTime
        FROM SNMPv2-TC
    ciscoMgmt
        FROM CISCO-SMI;
ciscoUltramMIB MODULE-IDENTITY
    LAST-UPDATED      "201707060000Z"
    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"
    DESCRIPTION
        "The MIB module to management of Cisco Ultra Services Platform
        (USP) also called Ultra-M Network Function Virtualization (NFV)
        platform. The Ultra-M platform is Cisco validated turnkey
        solution based on ETSI(European Telecommunications Standards
        Institute) NFV architetcure.
        It comprises of following architectural domains:
        1. Management and Orchestration (MANO) these componets
        enables infrastructure virtualization and life cycle management
        of Cisco Ultra Virtual Network Functions (VNFs).
        2. NFV Infrastructure (NFVI) set of physical resources to
        provide NFV infrastrctre for example servers switch chassis
        and so on.
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3. Virtualized Infrastructure Manager (VIM)
4. One or more Ultra VNFs.
Ultra-M platform provides a single point of management
(including SNMP APIs Web Console and CLI/Telnet Console) for
the resources across these domains within NFV PoD (Point of
Delivery).
This is also called Ultra-M manager throughout the context of
this MIB."
REVISION      "201707050000Z"
DESCRIPTION
  "- cultramFaultDomain changed to read-only in compliance.
  - Added a new fault code serviceFailure under
  'CultramFaultCode'.
  - Added a new notification cultramFaultClearNotif.
  - Added new notification group ciscoUltramMIBNotifyGroupExt.
  - Added new compliance group ciscoUltramMIBModuleComplianceRev01
  which deprecates ciscoUltramMIBModuleCompliance."
REVISION      "201706260000Z"
DESCRIPTION
  "Latest version of this MIB module."
 ::= { ciscoMgmt 849 }
CFaultCode ::= TEXTUAL-CONVENTION
  STATUS      current
  DESCRIPTION
    "A code identifying a class of fault."
  SYNTAX      INTEGER {
    other(1) -- Other events
    networkConnectivity(2) -- Network Connectivity
                                -- Failure Events.
    resourceUsage(3) -- Resource Usage Exhausted
                                -- Event.
    resourceThreshold(4) -- Resource Threshold
                                -- crossing alarms
    hardwareFailure(5) -- Hardware Failure Events
    securityViolation(6) -- Security Alerts
    configuration(7) -- Config Error Events
    serviceFailure(8) -- Process/Service failures
  }
CFaultSeverity ::= TEXTUAL-CONVENTION
  STATUS      current
  DESCRIPTION
    "A code used to identify the severity of a fault."
  SYNTAX      INTEGER {
    emergency(1) -- System level FAULT impacting
                                -- multiple VNFs/Services
    critical(2) -- Critical Fault specific to
                                -- VNF/Service
    major(3) -- component level failure within
                                -- VNF/service.
    alert(4) -- warning condition for a service/VNF
                                -- may eventually impact service.
    informational(5) -- informational only does not
                                -- impact service
  }
CFaultDomain ::= TEXTUAL-CONVENTION
  STATUS      current
  DESCRIPTION
    "A code used to categorize Ultra-M fault domain."
  SYNTAX      INTEGER {
    hardware(1) -- Harware including Servers L2/L3
                                -- Elements
    vimOrchestrator(2) -- VIM under-cloud
    vim(3) -- VIM manager such as OpenStack
    uas(4) -- Ultra Automation Services Modules
    vnfM(5) -- VNF manager
    vnfEM(6) -- Ultra VNF Element Manager
    vnf(7) -- Ultra VNF
  }
-- Textual Conventions definition will be defined before this line
ciscoUltramMIBNotifs OBJECT IDENTIFIER
 ::= { ciscoUltramMIB 0 }
ciscoUltramMIBObjects OBJECT IDENTIFIER

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 ::= { ciscoUltramMIB 1 }
ciscoUltramMIBConform OBJECT IDENTIFIER
 ::= { ciscoUltramMIB 2 }
-- Conformance Information Definition
ciscoUltramMIBCompliances OBJECT IDENTIFIER
 ::= { ciscoUltramMIBConform 1 }
ciscoUltramMIBGroups OBJECT IDENTIFIER
 ::= { ciscoUltramMIBConform 2 }
ciscoUltramMIBModuleCompliance MODULE-COMPLIANCE
 STATUS deprecated
 DESCRIPTION
  "The compliance statement for entities that support
  the Cisco Ultra-M Fault Managed Objects"
 MODULE -- this module
 MANDATORY-GROUPS {
     ciscoUltramMIBMainObjectGroup
     ciscoUltramMIBNotifyGroup
 }
 ::= { ciscoUltramMIBCompliances 1 }
ciscoUltramMIBModuleComplianceRev01 MODULE-COMPLIANCE
 STATUS current
 DESCRIPTION
  "The compliance statement for entities that support
  the Cisco Ultra-M Fault Managed Objects."
 MODULE -- this module
 MANDATORY-GROUPS {
     ciscoUltramMIBMainObjectGroup
     ciscoUltramMIBNotifyGroup
     ciscoUltramMIBNotifyGroupExt
 }
 OBJECT cultramFaultDomain
 MIN-ACCESS read-only
 DESCRIPTION
  "cultramFaultDomain is read-only."
 ::= { ciscoUltramMIBCompliances 2 }
ciscoUltramMIBMainObjectGroup OBJECT-GROUP
 OBJECTS {
     cultramNFVIdentity
     cultramFaultDomain
     cultramFaultSource
     cultramFaultCreationTime
     cultramFaultSeverity
     cultramFaultCode
     cultramFaultDescription
 }
 STATUS current
 DESCRIPTION
  "A collection of objects providing Ultra-M fault information."
 ::= { ciscoUltramMIBGroups 1 }
ciscoUltramMIBNotifyGroup NOTIFICATION-GROUP
 NOTIFICATIONS { cultramFaultActiveNotif }
 STATUS current
 DESCRIPTION
  "The set of Ultra-M notifications defined by this MIB"
 ::= { ciscoUltramMIBGroups 2 }
ciscoUltramMIBNotifyGroupExt NOTIFICATION-GROUP
 NOTIFICATIONS { cultramFaultClearNotif }
 STATUS current
 DESCRIPTION
  "The set of Ultra-M notifications defined by this MIB"
 ::= { ciscoUltramMIBGroups 3 }
cultramFaultTable OBJECT-TYPE
 SYNTAX SEQUENCE OF CultramFaultEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
  "A table of Ultra-M faults. This table contains active
  faults."
 ::= { ciscoUltramMIBObjects 1 }
cultramFaultEntry OBJECT-TYPE
 SYNTAX CultramFaultEntry
 MAX-ACCESS not-accessible
 STATUS current

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DESCRIPTION
    "An entry in the Ultra-M fault table."
INDEX      { cultramFaultIndex }
 ::= { cultramFaultTable 1 }
CultramFaultEntry ::= SEQUENCE {
    cultramFaultIndex      Unsigned32
    cultramNFVIdentity     OCTET STRING
    cultramFaultDomain     CFaultDomain
    cultramFaultSource     OCTET STRING
    cultramFaultCreationTime DateAndTime
    cultramFaultSeverity   CFaultSeverity
    cultramFaultCode       CFaultCode
    cultramFaultDescription OCTET STRING
}
cultramFaultIndex OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This object uniquely identifies a specific instance of a
        Ultra-M fault.
        For example if two separate computes have a service level
        Failure then each compute will have a fault instance with a
        unique index."
    ::= { cultramFaultEntry 1 }
cultramNFVIdentity OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1..512))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This object uniquely identifies the Ultra-M PoD on which this
        fault is occurring.
        For example this identity can include host-name as well
        management IP where manager node is running
        'Ultra-M-San-Francisco/172.10.185.100'."
    ::= { cultramFaultEntry 2 }
cultramFaultDomain OBJECT-TYPE
    SYNTAX      CFaultDomain
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "A unique Fault Domain that has fault."
    ::= { cultramFaultEntry 3 }
cultramFaultSource OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1..512))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object uniquely identifies the resource with the fault
        domain where this fault is occurring. For example this can
        include host-name as well management IP of the resource
        'UCS-C240-Server-1/192.100.0.1'."
    ::= { cultramFaultEntry 4 }
cultramFaultCreationTime OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time when the fault was occurred."
    ::= { cultramFaultEntry 5 }
cultramFaultSeverity OBJECT-TYPE
    SYNTAX      CFaultSeverity
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A code identifying the perceived severity of the fault."
    ::= { cultramFaultEntry 6 }
cultramFaultCode OBJECT-TYPE
    SYNTAX      CFaultCode
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A code uniquely identifying the fault class."

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 ::= { cultramFaultEntry 7 }
cultramFaultDescription OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1..2048))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A human-readable message providing details about the fault."
 ::= { cultramFaultEntry 8 }
cultramFaultActiveNotif NOTIFICATION-TYPE
    OBJECTS      {
        cultramNFVIdenity
        cultramFaultDomain
        cultramFaultSource
        cultramFaultCreationTime
        cultramFaultSeverity
        cultramFaultCode
        cultramFaultDescription
    }
    STATUS      current
    DESCRIPTION
        "This notification is generated by a Ultra-M manager whenever a
        fault is active."
 ::= { ciscoUltramMIBNotifs 1 }
cultramFaultClearNotif NOTIFICATION-TYPE
    OBJECTS      {
        cultramNFVIdenity
        cultramFaultDomain
        cultramFaultSource
        cultramFaultCreationTime
        cultramFaultSeverity
        cultramFaultCode
        cultramFaultDescription
    }
    STATUS      current
    DESCRIPTION
        "This notification is generated by a Ultra-M manager whenever a
        fault is cleared."
 ::= { ciscoUltramMIBNotifs 2 }
END

```

