



Ultra M MIB



Important

Not all aspects of this MIB are supported in this release. Refer to 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 architecture.
        It comprises of following architectural domains:
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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.
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

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    "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
    vnf(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
 ::= { 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 }

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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
  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

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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."
 ::= { 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      {
                cultramNFVIdentity
                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      {
                cultramNFVIdentity
                cultramFaultDomain
                cultramFaultSource
                cultramFaultCreationTime
                cultramFaultSeverity
                cultramFaultCode
            }

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                cultramFaultDescription
            }
STATUS          current
DESCRIPTION
    "This notification is generated by a Ultra-M manager whenever a
    fault is cleared."
 ::= { ciscoUltramMIBNotifs 2 }
END
```