



APPENDIX D

Notification MIB

The CISCO-EPM-NOTIFICATION-MIB specifies the trap message format Cisco Prime Unified Operations Manager (Prime UOM) uses to generate SNMP traps when an event occurs. The trap includes events that caused the trap to be created.

The CISCO-EPM-NOTIFICATION-MIB can be downloaded from Cisco.com.

This topic includes the following information:

- [MIB Definition, page D-1](#)
- [cenAlarmEntry Object-Type—Definitions for Selected Attributes, page D-17](#)
- [cenUserMessage1 Object-Type—Attribute with Partition Information, page D-18](#)
- [Sample Traps and Syslogs Sent By Prime UOM, page D-18](#)

MIB Definition

```
CISCO-EPM-NOTIFICATION-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    MODULE-IDENTITY,  
    NOTIFICATION-TYPE,  
    Integer32,  
    Unsigned32,  
    Object-TYPE          FROM SNMPv2-SMI  
    MODULE-COMPLIANCE,  
    NOTIFICATION-GROUP,  
    Object-GROUP        FROM SNMPv2-CONF  
    TimeStamp           FROM SNMPv2-TC  
    SnmpAdminString     FROM SNMP-FRAMEWORK-MIB  
    InetAddressType,  
    InetAddress        FROM INET-ADDRESS-MIB  
    ciscoMgmt           FROM CISCO-SMI  
    ;
```

```
ciscoEpmNotificationMIB MODULE-IDENTITY  
    LAST-UPDATED      "200406070000Z"  
    ORGANIZATION      "Cisco Systems, Inc."  
    CONTACT-INFO      "Cisco Systems  
    Customer Service
```

```
    Postal: 170 W Tasman Drive  
    San Jose, CA 95134
```

```
    Tel: +1 800 553-NETS
```

```
    E-mail: tac@cisco.com"
```

DESCRIPTION

"Notifications directly from hardware and software and processed notifications from various management applications can be further processed and forwarded by still other management applications to indicate the status of devices and software (managed Objects). The status of these managed Objects can be reported by traps.

The CISCO-EPM-NOTIFICATION-MIB contains the trap structure which carries the identity and status info of the managed object as analyzed by such an event processor. It is not possible for receivers of these traps to query the mib Objects.

A unique but optional feature of the application generating the trap defined in this mib is the ability to contain multiple partitions in the same system running the application. A 'Partition' is a logical grouping of a set of managed devices. These devices can belong to only one partition at any given time. The trap structure will contain information on the exact partition number and the partition name of the device where it resides.

The need for trap generation is to enable multiple management applications in the network to have a consolidated view of the whole network of Cisco and non-Cisco devices."

REVISION "200406070000Z"

DESCRIPTION

"Updated the cenAlarmEntry to include new attributes. The new attributes carries information that adds more value to the already existing trap structure.

The Management application computes events for a device via polling snmp mib Objects on the device and/or by listening to SNMP Traps. Multiple events on a single device roll up into what is called an Alert - there can be only one alert for a given device at any given time. The objects contained in the cenAlarmEntry are the same for both Alert and Event based notification. The attribute cenAlarmMode added in this revision of the mib can be used to distinguish between the Alert based and event based notification.

In case of event based notification, the cenAlertID would contain the alert id, as computed by the management system, to which the generated event has been rolled up.

Traps generated from systems that support mutiple Partition, the cenPartitionNumber and cenPartitionName attributes will carry the exact partition details of the device for which the trap is generated.

Through the management application user interface, the user can customize few attributes of the trap structure. Two attributes included in this mib revision that allows the user to customize each trap sent out are cenCustomerIdentification and cenCustomerRevision.

ciscoEpmNotificationobjectsGroup, ciscoEpmNotificationAlarm, and ciscoEpmNotificationMIBCompliance have been deprecated in this revision.

```

ciscoEpmNotificationAlarmRev1,
ciscoEpmNotificationAlarmGroupRev1,
ciscoEpmNotificationMIBComplianceRev1,
and ciscoEpmNotificationobjectsGroupRev1 have been newly created
in this revision."

REVISION      "200308210000Z"
DESCRIPTION
  "Included imports for Integer32, Unsigned32, and
  NOTIFICATION-GROUP."

REVISION      "200207281420Z"
DESCRIPTION
  "Initial version of this MIB."
 ::= { ciscoMgmt 311 }

-- MIB Object Definitions

ciscoEpmNotificationMIBNotifs Object IDENTIFIER
                               ::= { ciscoEpmNotificationMIB 0 }
ciscoEpmNotificationMIBObjects Object IDENTIFIER
                               ::= { ciscoEpmNotificationMIB 1 }
ciscoEpmNotificationMIBConform Object IDENTIFIER
                               ::= { ciscoEpmNotificationMIB 2 }

cenAlarmData                    Object IDENTIFIER
                               ::= { ciscoEpmNotificationMIBObjects 1}

cenAlarmTableMaxLength          Object-TYPE
  SYNTAX                        Unsigned32 ( 1..4294967295 )
  MAX-ACCESS                    read-write
  STATUS                         current
  DESCRIPTION
    "Maximum number of entries permissible in the cenAlarmTable."
  DEFVAL { 1 }
  ::= { cenAlarmData 1 }

cenAlarmTable                   Object-TYPE
  SYNTAX                        SEQUENCE OF CenAlarmEntry
  MAX-ACCESS                    not-accessible
  STATUS                         current
  DESCRIPTION
    "A table containing the device identification and
    alarm value. The maximum number of entries permissible
    in this table is defined by cenAlarmTableMaxLength. When
    the number of entries in the table reaches the maximum
    limit, the next entry would replace the oldest existing
    entry in the table."
  ::= { cenAlarmData 2 }

cenAlarmEntry                   Object-TYPE
  SYNTAX                        CenAlarmEntry
  MAX-ACCESS                    not-accessible
  STATUS                         current
  DESCRIPTION
    "The information regarding a single device status alarm.
    An entry is created when an alarm is processed."
  INDEX                         { cenAlarmIndex }
  ::= { cenAlarmTable 1 }

CenAlarmEntry ::=
  SEQUENCE {
    cenAlarmIndex                Unsigned32,

```

```

cenAlarmVersion          SnmpAdminString,
cenAlarmTimestamp        TimeStamp,
cenAlarmUpdatedTimestamp TimeStamp,
cenAlarmInstanceID      SnmpAdminString,
cenAlarmStatus           Integer32,
cenAlarmStatusDefinition SnmpAdminString,
cenAlarmType             INTEGER,
cenAlarmCategory         Integer32,
cenAlarmCategoryDefinition SnmpAdminString,
cenAlarmServerAddressType InetAddressType,
cenAlarmServerAddress    InetAddress,
cenAlarmManagedObjectClass SnmpAdminString,
cenAlarmManagedObjectAddressType InetAddressType,
cenAlarmManagedObjectAddress InetAddress,
cenAlarmDescription      OCTET STRING,
cenAlarmSeverity         Integer32,
cenAlarmSeverityDefinition SnmpAdminString,
cenAlarmTriageValue      Integer32,
cenEventIDList           OCTET STRING,
cenUserMessage1          SnmpAdminString,
cenUserMessage2          SnmpAdminString,
cenUserMessage3          SnmpAdminString,
cenAlarmMode             INTEGER,
cenPartitionNumber       Unsigned32,
cenPartitionName         SnmpAdminString,
cenCustomerIdentification SnmpAdminString,
cenCustomerRevision      SnmpAdminString,
cenAlertID               SnmpAdminString
}

-- Alarm attributes

cenAlarmIndex      Object-TYPE
SYNTAX             Unsigned32 (1..4294967295)
MAX-ACCESS         not-accessible
STATUS             current
DESCRIPTION
"A monotonically increasing integer for the sole
purpose of indexing the attributes in
ciscoEpmNotificationMIBObjects. When the maximum value is
reached, this value wraps back to 1."
::= { cenAlarmEntry 1 }

cenAlarmVersion    Object-TYPE
SYNTAX             SnmpAdminString (SIZE(1..16))
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"The release version of this MIB. The version string will
be of the form <major version>.<minorversion>."
::= { cenAlarmEntry 2 }

cenAlarmTimestamp  Object-TYPE
SYNTAX             TimeStamp
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"The time when the alarm was raised."
::= { cenAlarmEntry 3 }

cenAlarmUpdatedTimestamp Object-TYPE
SYNTAX             TimeStamp
MAX-ACCESS         read-only
STATUS             current

```

```

DESCRIPTION
"Alarms persist over time and can have their field(s)
change values. The last time a field(s) changed, this
alarm is updated. The updated time denotes this time.
Each alarm is identified by the unique alarm instance
id, cenAlarmInstanceID."
 ::= { cenAlarmEntry 4 }

cenAlarmInstanceID      Object-TYPE
SYNTAX                  SnmpAdminString (SIZE(1..20))
MAX-ACCESS              read-only
STATUS                  current
DESCRIPTION
"The Unique Alarm Instance ID."
 ::= { cenAlarmEntry 5 }

cenAlarmStatus          Object-TYPE
SYNTAX                  Integer32 (1..250)
MAX-ACCESS              read-only
STATUS                  current
DESCRIPTION
"The alarm status indicates the status of the alarm
in integer value."
 ::= { cenAlarmEntry 6 }

cenAlarmStatusDefinition Object-TYPE
SYNTAX                  SnmpAdminString (SIZE(1..255))
MAX-ACCESS              read-only
STATUS                  current
DESCRIPTION
"The short description of the status of the alarm.
The string is formatted in
'<integer>,<alarmStatus description>' tuples. The <integer>
value is the same value that the 'cenAlarmStatus'
attribute holds. <alarmStatus description> contains one line
description of the alarm status generated."
 ::= { cenAlarmEntry 7 }

cenAlarmType            Object-TYPE
SYNTAX                  INTEGER {
                        unknown(1),
                        direct(2),
                        indirect(3),
                        mixed(4)
                        }
MAX-ACCESS              read-only
STATUS                  current
DESCRIPTION
"unknown:  When the value for this attribute could not be
determined.
direct:    Denotes an alarm generated by a set of events where
all events are reported by an observation(s) of a
managed Object.
indirect:  Denotes an alarm generated by a set of events where
all events were deduced or inferred by the status of
managed Objects as determined by the network
management system.
mixed:     Denotes an alarm generated by a set of events which
were either direct or indirect."
 ::= { cenAlarmEntry 8 }

cenAlarmCategory        Object-TYPE
SYNTAX                  Integer32 (1..250)
MAX-ACCESS              read-only

```

```

STATUS          current
DESCRIPTION
"The category of the alarm generated represented in
integer value."
 ::= { cenAlarmEntry 9 }

cenAlarmCategoryDefinition  Object-TYPE
SYNTAX              SnmpAdminString (SIZE(1..255))
MAX-ACCESS          read-only
STATUS              current
DESCRIPTION
"The short description of the category of the alarm
generated. The String is formatted in
'<integer>,<alarmCategory description>' tuples. The <integer>
value is the same value that the 'cenAlarmCategory'
attribute holds. <alarmCategory description> contains one
line description of the alarm category generated."
 ::= { cenAlarmEntry 10 }

cenAlarmServerAddressType  Object-TYPE
SYNTAX                    InetAddressType
MAX-ACCESS                read-only
STATUS                    current
DESCRIPTION
"The type of Internet address by which the server
is reachable. The Server is the server
that is generating this trap."
 ::= { cenAlarmEntry 11 }

cenAlarmServerAddress      Object-TYPE
SYNTAX                    InetAddress
MAX-ACCESS                read-only
STATUS                    current
DESCRIPTION
"The IP Address or the DNS name of the Management
Server that raised this alarm to be notified."
 ::= { cenAlarmEntry 12 }

cenAlarmManagedObjectClass  Object-TYPE
SYNTAX                    SnmpAdminString (SIZE(1..255))
MAX-ACCESS                read-only
STATUS                    current
DESCRIPTION
"The class of the managed object for which this
alarm was generated. For example, Router, Switch,
GateKeeper and VoicePort."
 ::= { cenAlarmEntry 13 }

cenAlarmManagedObjectAddressType  Object-TYPE
SYNTAX                    InetAddressType
MAX-ACCESS                read-only
STATUS                    current
DESCRIPTION
"The type of Internet address by which the managed
object is reachable."
 ::= { cenAlarmEntry 14 }

cenAlarmManagedObjectAddress      Object-TYPE
SYNTAX                    InetAddress
MAX-ACCESS                read-only
STATUS                    current
DESCRIPTION
"The IP Address or the DNS name of the Managed Object."
 ::= { cenAlarmEntry 15 }

```

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cenAlarmDescription      Object-TYPE
    SYNTAX                OCTET STRING (SIZE(1..1024))
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
        "A detailed description of the alarm."
    ::= { cenAlarmEntry 16 }

cenAlarmSeverity         Object-TYPE
    SYNTAX                Integer32 (0..100)
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
        "The alarm severity indicates the severity of the alarm
        in integer value."
    ::= { cenAlarmEntry 17 }

cenAlarmSeverityDefinition Object-TYPE
    SYNTAX                SnmpAdminString (SIZE(1..255))
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
        "The short description of the severity of the alarm
        generated. The String is formatted in
        '<integer>,<alarmSeverity description>' tuples. The <integer>
        value is the same value that the 'cenAlarmSeverity '
        attribute holds. <alarmSeverity description> contains one line
        description of the alarm severity generated."
    ::= { cenAlarmEntry 18 }

cenAlarmTriageValue     Object-TYPE
    SYNTAX                Integer32(0..100)
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
        "The triage value of an alarm is a hierarchical weighting value
        (applied by the application, and more importantly customizable
        by the end user) to allow an artificial form of evaluating
        impact, interest, or other user-determined functions between
        alarms. The value is a positive number or zero where zero
        denotes an undetermined or uncomputable value."
    ::= { cenAlarmEntry 19 }

cenEventIDList          Object-TYPE
    SYNTAX                OCTET STRING (SIZE(1..1024))
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
        "Comma separated list of the Unique Event identifiers
        that led to the generation of this Alarm."
    ::= { cenAlarmEntry 20 }

cenUserMessage1         Object-TYPE
    SYNTAX                SnmpAdminString (SIZE(1..255))
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
        "User input message. This value can be configured."
    ::= { cenAlarmEntry 21 }

cenUserMessage2         Object-TYPE
    SYNTAX                SnmpAdminString (SIZE(1..255))
    MAX-ACCESS            read-only

```

```

STATUS          current
DESCRIPTION
"User input message. This value can be configured."
 ::= { cenAlarmEntry 22 }

cenUserMessage3      Object-TYPE
SYNTAX             SnmpAdminString (SIZE(1..255))
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"User input message. This value can be configured."
 ::= { cenAlarmEntry 23 }

cenAlarmMode         Object-TYPE
SYNTAX             INTEGER {
                    unknown(1),
                    alert(2),
                    event(3)
                    }
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"unknown:  When the value for this attribute could not be
determined.
alert:     Denotes an alarm generated by a set of events where
all events are reported by polling of managed
Objects and/or listening to SNMP notifications.
event:     Denotes an event generated by polling of managed
objects and/or listening to SNMP notifications."
 ::= { cenAlarmEntry 24 }

cenPartitionNumber   Object-TYPE
SYNTAX             Unsigned32(0..100)
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"In traps generated by the management application that support
multiple partitions, the attribute will carry the integer
value assigned to identify the logical group where the managed
device resides."
 ::= { cenAlarmEntry 25 }

cenPartitionName     Object-TYPE
SYNTAX             SnmpAdminString (SIZE(1..255))
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"In traps generated by the management application that support
multiple partitions, the attribute will carry the name
assigned to identify the logical group where the managed
device resides."
 ::= { cenAlarmEntry 26 }

cenCustomerIdentification Object-TYPE
SYNTAX             SnmpAdminString (SIZE(1..255))
MAX-ACCESS         read-only
STATUS             current
DESCRIPTION
"User input message. The attribute takes in a free format
text. This attribute can be used by advanced management
applications to sort responses from the fault management
server."
 ::= { cenAlarmEntry 27 }

```



```

cenCustomerRevision      Object-TYPE
    SYNTAX                SnmpAdminString (SIZE(1..255))
    MAX-ACCESS             read-only
    STATUS                 current
    DESCRIPTION
        "User input message. The attribute takes in a free format
        text. This attribute can be used by advanced management
        applications to sort responses from the fault management
        server."
    ::= { cenAlarmEntry 28 }

cenAlertID               Object-TYPE
    SYNTAX                SnmpAdminString (SIZE(1..20))
    MAX-ACCESS             read-only
    STATUS                 current
    DESCRIPTION
        "In event based notification, this attribute will contain the
        alert id to which the generated event has been rolled up
        to. In alert based notification, the cenAlarmInstanceId and
        cenAlertID would be identical."
    ::= { cenAlarmEntry 29 }

ciscoEpmNotificationAlarm  NOTIFICATION-TYPE
    Objects {
        cenAlarmVersion,
        cenAlarmTimestamp,
        cenAlarmUpdatedTimestamp,
        cenAlarmInstanceId,
        cenAlarmStatus,
        cenAlarmStatusDefinition,
        cenAlarmType,
        cenAlarmCategory,
        cenAlarmCategoryDefinition,
        cenAlarmServerAddressType,
        cenAlarmServerAddress,
        cenAlarmManagedObjectClass,
        cenAlarmManagedObjectAddressType,
        cenAlarmManagedObjectAddress,
        cenAlarmDescription,
        cenAlarmSeverity,
        cenAlarmSeverityDefinition,
        cenAlarmTriageValue,
        cenEventIDList,
        cenUserMessage1,
        cenUserMessage2,
        cenUserMessage3
    }
    STATUS                 deprecated
    DESCRIPTION
        "Notification of the status of the managed object as
        generated by the management server.

        New attributes are added to the ciscoEpmNotificationAlarmRev1.
        Hence this notification is deprecated."
    ::= { ciscoEpmNotificationMIBNotifs 1 }

ciscoEpmNotificationAlarmRev1  NOTIFICATION-TYPE
    OBJECTS {
        cenAlarmVersion,
        cenAlarmTimestamp,
        cenAlarmUpdatedTimestamp,
        cenAlarmInstanceId,
        cenAlarmStatus,
        cenAlarmStatusDefinition,

```

```

        cenAlarmType,
        cenAlarmCategory,
        cenAlarmCategoryDefinition,
        cenAlarmServerAddressType,
        cenAlarmServerAddress,
        cenAlarmManagedObjectClass,
        cenAlarmManagedObjectAddressType,
        cenAlarmManagedObjectAddress,
        cenAlarmDescription,
        cenAlarmSeverity,
        cenAlarmSeverityDefinition,
        cenAlarmTriageValue,
        cenEventIDList,
        cenUserMessage1,
        cenUserMessage2,
        cenUserMessage3,
        cenAlarmMode,
        cenPartitionNumber,
        cenPartitionName,
        cenCustomerIdentification,
        cenCustomerRevision,
        cenAlertID
    }
    STATUS current
    DESCRIPTION
        "Notification of the status of the managed object as
        generated by the management server."
    ::= { ciscoEpmNotificationMIBNotifs 2 }

-- Conformance information

ciscoEpmNotificationMIBCompliances Object IDENTIFIER
    ::= { ciscoEpmNotificationMIBConform 1 }
ciscoEpmNotificationMIBGroups Object IDENTIFIER
    ::= { ciscoEpmNotificationMIBConform 2 }

-- Compliance

ciscoEpmNotificationMIBCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The compliance statement for entities which
        implement the CISCO-EPM-NOTIFICATION-MIB.

        New attributes are included in
        ciscoEpmNotificationMIBComplianceRev1. Hence this object is
        deprecated."
    MODULE -- this module
    MANDATORY-GROUPS {
        ciscoEpmNotificationObjectsGroup,
        ciscoEpmNotificationAlarmGroup
    }

    GROUP ciscoEpmAlarmConfigGroup
    DESCRIPTION
        "This group is optional."

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

```

OBJECT cenAlarmVersion
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmTimestamp
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmUpdatedTimestamp
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmInstanceID
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmStatus
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmStatusDefinition
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmType
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmCategory
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmCategoryDefinition
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmServerAddressType
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmServerAddress
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmManagedObjectClass
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

OBJECT cenAlarmManagedObjectAddressType
MIN-ACCESS accessible-for-notify
DESCRIPTION
"Read access is not required."

```

OBJECT cenAlarmManagedObjectAddress
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenAlarmDescription
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenAlarmSeverity
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenAlarmSeverityDefinition
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenAlarmTriageValue
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenEventIDList
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenUserMessage1
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenUserMessage2
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT cenUserMessage3
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."
 ::= { ciscoEpmNotificationMIBCompliances 1 }

ciscoEpmNotificationMIBComplianceRev1 MODULE-COMPLIANCE
STATUS current
DESCRIPTION
"The compliance statement for entities which
implement the CISCO-EPM-NOTIFICATION-MIB."
MODULE -- this module
MANDATORY-GROUPS {
    ciscoEpmNotificationObjectsGroupRev1,
    ciscoEpmNotificationAlarmGroupRev1
}

GROUP ciscoEpmAlarmConfigGroup
DESCRIPTION
"This group is optional."

OBJECT cenAlarmTableMaxLength
MIN-ACCESS read-only

```

```

DESCRIPTION
"Write access is not required."

OBJECT      cenAlarmVersion
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmTimestamp
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmUpdatedTimestamp
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmInstanceID
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmStatus
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmStatusDefinition
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmType
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmCategory
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmCategoryDefinition
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmServerAddressType
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmServerAddress
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmManagedObjectClass
MIN-ACCESS  accessible-for-notify
DESCRIPTION
  "Read access is not required."

OBJECT      cenAlarmManagedObjectAddressType

```

```

MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlarmManagedObjectAddress
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlarmDescription
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlarmSeverity
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlarmSeverityDefinition
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlarmTriageValue
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenEventIDList
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenUserMessage1
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenUserMessage2
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenUserMessage3
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlarmMode
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenPartitionNumber
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenPartitionName
MIN-ACCESS accessible-for-notify
DESCRIPTION
    "Read access is not required."

```

```

OBJECT      cenCustomerIdentification
MIN-ACCESS  accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenCustomerRevision
MIN-ACCESS  accessible-for-notify
DESCRIPTION
    "Read access is not required."

OBJECT      cenAlertID
MIN-ACCESS  accessible-for-notify
DESCRIPTION
    "Read access is not required."

 ::= { ciscoEpmNotificationMIBCompliance 2 }

-- Units of Conformance

ciscoEpmNotificationAlarmGroup NOTIFICATION-GROUP
    NOTIFICATIONS {
        ciscoEpmNotificationAlarm
    }
    STATUS      deprecated
    DESCRIPTION
        "The collection of notifications used to indicate managed
        object status.

        ciscoEpmNotificationAlarmGroupRev1 is defined. Hence this
        object is deprecated."
    ::= { ciscoEpmNotificationMIBGroups 1 }

ciscoEpmNotificationObjectsGroup  Object-GROUP
    Objects {
        cenAlarmVersion,
        cenAlarmTimestamp,
        cenAlarmUpdatedTimestamp,
        cenAlarmInstanceID,
        cenAlarmStatus,
        cenAlarmStatusDefinition,
        cenAlarmType,
        cenAlarmCategory,
        cenAlarmCategoryDefinition,
        cenAlarmServerAddressType,
        cenAlarmServerAddress,
        cenAlarmManagedObjectClass,
        cenAlarmManagedObjectAddressType,
        cenAlarmManagedObjectAddress,
        cenAlarmDescription,
        cenAlarmSeverity,
        cenAlarmSeverityDefinition,
        cenAlarmTriageValue,
        cenEventIDList,
        cenUserMessage1,
        cenUserMessage2,
        cenUserMessage3
    }
    STATUS      deprecated
    DESCRIPTION
        "Trap reflecting the alarm.

        New attributes are added to the new notification
        ciscoEpmNotificationObjectsGroupRev1. Hence
        this object is deprecated."

```

```

 ::= { ciscoEpmNotificationMIBGroups 2 }

ciscoEpmAlarmConfigGroup Object-GROUP
  ObjectS { cenAlarmTableMaxLength }
  STATUS current
  DESCRIPTION
  "A collection of Objects providing information
  about the total number of cenAlarmTable entries
  maintained."
  ::= { ciscoEpmNotificationMIBGroups 3 }

ciscoEpmNotificationAlarmGroupRev1 NOTIFICATION-GROUP
  NOTIFICATIONS {
    ciscoEpmNotificationAlarmRev1
  }
  STATUS current
  DESCRIPTION
  "The collection of notifications used to indicate managed Object
  status."
  ::= { ciscoEpmNotificationMIBGroups 4 }

ciscoEpmNotificationObjectsGroupRev1 Object-GROUP
  ObjectS {
    cenAlarmVersion,
    cenAlarmTimestamp,
    cenAlarmUpdatedTimestamp,
    cenAlarmInstanceID,
    cenAlarmStatus,
    cenAlarmStatusDefinition,
    cenAlarmType,
    cenAlarmCategory,
    cenAlarmCategoryDefinition,
    cenAlarmServerAddressType,
    cenAlarmServerAddress,
    cenAlarmManagedObjectClass,
    cenAlarmManagedObjectAddressType,
    cenAlarmManagedObjectAddress,
    cenAlarmDescription,
    cenAlarmSeverity,
    cenAlarmSeverityDefinition,
    cenAlarmTriageValue,
    cenEventIDList,
    cenUserMessage1,
    cenUserMessage2,
    cenUserMessage3,
    cenAlarmMode,
    cenPartitionNumber,
    cenPartitionName,
    cenCustomerIdentification,
    cenCustomerRevision,
    cenAlertID
  }
  STATUS current
  DESCRIPTION
  "Notification reflecting the alarm."
  ::= { ciscoEpmNotificationMIBGroups 5 }

```

END

cenAlarmEntry Object-Type—Definitions for Selected Attributes

[Table D-1](#) explains the values for attributes related to alert status, category, and severity. You might find it useful to consult this information when you look at a generated trap.

Table D-1 *CenAlarmEntry—Alert Status, Category, and Severity*

Sequence Numbers	Attributes	Values
(6)	cenAlarmStatus	Number—From 1 to 3.
(7)	cenAlarmStatusDefinition	String—Includes number (cenAlarmStatus) and description: 1-Acknowledged 2-Active 3-Cleared Alert status changes from state to state: state is Active; if user acknowledges alert, state is Acknowledged; ultimately, state is Cleared. For more information about events, see How Events are Handled, page 4-21
(9)	cenAlarmCategory	Number—From 0 to 9.
(10)	cenAlarmCategoryDefinition	String—Includes number (cenAlarmCategory) and description: 0-Unknown 1-Application 2-Environment 3-Interface 4-Reachability 5-Connectivity 6-Utilization 7-System Hardware 8-Security 9-Other
(17)	cenAlarmSeverity	Number—From 1 to 3.
(18)	cenAlarmSeverityDefinition	String—Includes number (cenAlarmSeverity) and description: 1-Informational 2-Warning 3-Critical

cenUserMessage1 Object-Type—Attribute with Partition Information

Prime UOM stores the partition number and alias for the identified device in the cenUserMessage1 Object-type. The partition number and alias are separated by a colon; for example, Partition 1: Enterprise1. This information is no longer relevant.

Sample Traps and Syslogs Sent By Prime UOM

This section contains some examples of traps and syslogs sent by Prime UOM.

Sample Trap Message

```
V1TRAP[requestID=0,timestamp=151 days,
15:57:20.55,enterprise=1.3.6.1.4.1.9.9.311,genericTrap=6,specificTrap=2,
VBS[1.3.6.1.4.1.9.9.311.1.1.2.1.2.0 = 2.0; 1.3.6.1.4.1.9.9.311.1.1.2.1.3.0 = 151 days,
15:57:20.55; 1.3.6.1.4.1.9.9.311.1.1.2.1.4.0 = 151 days, 15:57:20.55;
1.3.6.1.4.1.9.9.311.1.1.2.1.5 = 000034L; 1.3.6.1.4.1.9.9.311.1.1.2.1.6.0 = 3;
1.3.6.1.4.1.9.9.311.1.1.2.1.7.0 = 3 - UserCleared; 1.3.6.1.4.1.9.9.311.1.1.2.1.8.0 = 1;
1.3.6.1.4.1.9.9.311.1.1.2.1.9.0 = 0; 1.3.6.1.4.1.9.9.311.1.1.2.1.10.0 = 0 - Unknown;
1.3.6.1.4.1.9.9.311.1.1.2.1.11.0 = 1; 1.3.6.1.4.1.9.9.311.1.1.2.1.12.0 = 10.64.91.121;
1.3.6.1.4.1.9.9.311.1.1.2.1.13.0 = VoiceGateway; 1.3.6.1.4.1.9.9.311.1.1.2.1.14.0 = 1;
1.3.6.1.4.1.9.9.311.1.1.2.1.15.0 = 10.64.91.14; 1.3.6.1.4.1.9.9.311.1.1.2.1.16.0 =
CPUUtilizationExceeded123::Component= asd-CPUUtilizationExceeded_10.64.91.14/10;
ProductName= Product Name; CurrentState= Stopped; AdminURL= AdminURL; Default Event
Name= CPUUtilizationExceeded; DescriptionURL= <
http://10.64.91.121:1741/CSCOnm/servlet/com.cisco.nm.help.ServerHelpEngine?tag=CPUUtilizat
ionExceeded >; Cleared By= admin; Reason for Clear= User cleared event from display;
1.3.6.1.4.1.9.9.311.1.1.2.1.17.0 = 3; 1.3.6.1.4.1.9.9.311.1.1.2.1.18.0 = 3 - Critical;
1.3.6.1.4.1.9.9.311.1.1.2.1.19.0 = 0; 1.3.6.1.4.1.9.9.311.1.1.2.1.20.0 = 000034L;
1.3.6.1.4.1.9.9.311.1.1.2.1.21.0 = Diagnostic View =
http://10.64.91.121:1741/cwportal/user/admin/cuom-diag-view?;
1.3.6.1.4.1.9.9.311.1.1.2.1.22.0 = Detailed Device View =
http://10.64.91.121:1741/iptm/ddv.do?deviceInstanceName=10.64.91.14&deviceCapability=Voice
Gateway; 1.3.6.1.4.1.9.9.311.1.1.2.1.23.0 = FaultMonitor View =
http://10.64.91.121:1741/cwportal/user/admin/cuom-alert; 1.3.6.1.4.1.9.9.311.1.1.2.1.24.0
= 3; 1.3.6.1.4.1.9.9.311.1.1.2.1.25.0 = 0; 1.3.6.1.4.1.9.9.311.1.1.2.1.26.0 = null,null;
1.3.6.1.4.1.9.9.311.1.1.2.1.27.0 = Cisco]]
```

Sample Syslog Message

```
<186>Jul 11 17:04:24 WIN-SPJQH5TS4FT ITMNearThePond:%local7-2-EVENT: 11$Partition Id =
0]Partition Name = &)MODE=3;Event ID= 000034L|Status= UserCleared^Severity=
Critical^Managed Object= 10.64.91.14^Managed Object Type=
VoiceGateway^CUSTID=Cisco^Default Event
Name=CPUUtilizationExceeded^Description=CPUUtilizationExceeded123::Component=
asd-CPUUtilizationExceeded_10.64.91.14/10; ProductName= Product Name; CurrentState=
Stopped; AdminURL= AdminURL; DescriptionURL= <
http://10.64.91.121:1741/CSCOnm/servlet/com.cisco.nm.help.ServerHelpEngine?tag=CPUUtilizat
ionExceeded >; Cleared By= admin; Reason for Clear= User cleared event from display;
<TRUNCATED>
```