



Notification MIB

The CISCO-EPM-NOTIFICATION-MIB specifies the trap message format IP Communications Operations Manager (Operations Manager) uses to generate SNMP traps when an alert occurs. The trap includes the attributes of the alert and the events that caused the alert.

This topic includes the following information:

- [MIB Definition, page C-1](#)
- [cenAlarmEntry Object-Type—Definitions for Selected Attributes, page C-16](#)
- [cenUserMessage1 Object-Type—Attribute with Partition Information, page C-17](#)

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 }

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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

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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 }

cenAlarmDescription OBJECT-TYPE
    SYNTAX                OCTET STRING (SIZE(1..1024))
    MAX-ACCESS            read-only
    STATUS                current
    DESCRIPTION
    "A detailed description of the alarm."

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 ::= { 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))

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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

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        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,

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```

        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

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```
        "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 C-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 C-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 Note 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 alerts, see Chapter 3, “Using the Alerts and Events Display.”
(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

Operations Manager 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.

