



SNMP Trap Notifier MIB

The SNMP Trap Notifier MIB specifies the trap message format used by DFM to notify other systems about DFM notifications and cleared DFM notifications.



Note

The value of smNotifCertainty is always 100% for active events and 0 for clear events. More granularity is not reported because it is not helpful to the user.

```
-- DFM-MIB.my: CiscoWorks2000 Device Fault Manager
-- Copyright 1999 by System Management ARTS, Inc.
-- All Rights Reserved
--
DFM-MIB DEFINITIONS ::= BEGIN

IMPORTS
    enterprises, Counter32, OBJECT-TYPE,
    MODULE-IDENTITY, NOTIFICATION-TYPE
    FROM SNMPv2-SMI;

dfmMIB MODULE-IDENTITY
    LAST-UPDATED "9909232300Z"
    ORGANIZATION "Cisco Systems"
    CONTACT-INFO
        "Support
        Postal: Cisco Systems, Inc.
          170 West Tasman Drive
          San Jose, CA 95134
          US
        Phone: +1 408 526-4000
        E-mail: tac@cisco.com"
    DESCRIPTION
```

```

        "The CiscoWorks2000 Device Fault Manager MIB
        module for entities defined by
        Cisco Systems, Inc."
 ::= { enterprises 733 }

-- top level groups in the DFM-MIB

smNotificationTrapOBJECT IDENTIFIER ::= { dfmMIB 0 }
smNotificationDataOBJECT IDENTIFIER ::= { dfmMIB 2 }
-- The smNotificationData Group
-- The members of this group are the OIDs for VarBinds containing
-- notification data.
-- Group for generic notification data.

smGenericNotifyOBJECT IDENTIFIER ::= { smNotificationData 1 }

smNotifTimestamp OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The timestamp of the notification."
    ::= { smGenericNotify 1 }

smNotifServer OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The name of the server that is sending the notification."
    ::= { smGenericNotify 2 }

smNotifClass OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The class of the object associated with the notification."
    ::= { smGenericNotify 3 }

smNotifInstance OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The instance name of the object associated with the
        notification."

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 ::= { smGenericNotify 4 }

smNotifEventName OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The name of the event causing the notification."
    ::= { smGenericNotify 5 }

smNotifInstanceID OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The unique DFM inventory identification
         for the object associated with the notification ."
    ::= { smGenericNotify 6 }

smNotifDescription OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A complete description of the event."
    ::= { smGenericNotify 7 }

smNotifCertainty OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The certainty of the event. Floating-point number in the
         range 0-100, stored as a string."
    ::= { smGenericNotify 8 }

smNotifSeverity OBJECT-TYPE
    SYNTAX INTEGER {
        notApplicable (1),
        informational (2),
        warning (3),
        minor (4),
        major (5),
        severe (6)
    }
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION

```

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    "The severity of the event. Integer number in the range 1-6."
    ::= { smGenericNotify 9 }

-- The DFM enterprise Traps
--
-- These are the enterprise-specific trap codes currently in-use in
-- DFM software. The final sub-OID of each object is the code sent
-- in the "specific-trap" field of an SNMPv1 Trap-PDU.
--
-- The definition of these objects mimics the SNMPv2 convention for
-- sending traps: Take the enterprise OID, append 0, then append the
-- trap code.

smTrapNotification NOTIFICATION-TYPE
OBJECTS {smNotifTimestamp,
        smNotifServer,
        smNotifClass,
        smNotifInstance,
        smNotifEventName,
        smNotifInstanceID,
        smNotifDescription,
        smNotifCertainty,
        smNotifSeverity
}
STATUS current
DESCRIPTION
"A trap describing a DFM root cause notification.
The text in smNotifDescription indicates the nature of
the problem."
::= { smNotificationTrap 4 }

smTrapCertaintyChange NOTIFICATION-TYPE
OBJECTS {smNotifTimestamp,
        smNotifServer,
        smNotifClass,
        smNotifInstance,
        smNotifEventName,
        smNotifInstanceID,
        smNotifDescription,
        smNotifCertainty,
        smNotifSeverity
}
STATUS current
DESCRIPTION
"A trap indicating a certainty change of a DFM
notification. The text in smNotifDescription indicates
the nature of the problem."
::= { smNotificationTrap 2 }

```

```
smTrapSeverityChange NOTIFICATION-TYPE
OBJECTS {smNotifTimestamp,
         smNotifServer,
         smNotifClass,
         smNotifInstance,
         smNotifEventName,
         smNotifInstanceID,
         smNotifDescription,
         smNotifCertainty,
         smNotifSeverity
        }
STATUS current
DESCRIPTION
"A trap indicating a severity change of a DFM
notification. The text in smNotifDescription indicates
the nature of the notification."
 ::= { smNotificationTrap 3 }

smTrapNotificationClear NOTIFICATION-TYPE
OBJECTS {smNotifTimestamp,
         smNotifServer,
         smNotifClass,
         smNotifInstance,
         smNotifEventName,
         smNotifInstanceID,
         smNotifDescription,
         smNotifCertainty,
         smNotifSeverity
        }
STATUS current
DESCRIPTION
"A trap indicating the clear of a DFM notification."
 ::= { smNotificationTrap 7 }

END
```

