

Internet Draft

Event MIB

26 March 1997

Event MIB

26 March 1997

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Internet Draft

Event MIB

26 March 1997

1. Abstract

This memo defines an experimental portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it describes managed objects used for managing monitoring of MIB objects and taking action through events.

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Internet Draft

Event MIB

26 March 1997

## 2. The SNMP Network Management Framework

They are: The SNMP Network Management Framework presently consists of three major components. They are:

the SMI, described in [RFC 1902](#) [1] - the mechanisms used for describing and naming objects for the purpose of management.

the MIB-II, STD 17, [RFC 1213](#) [2] - the core set of managed objects for the Internet suite of protocols.

the protocol, [RFC 1157](#) [3] and/or [RFC 1905](#) [4], - the protocol for accessing managed objects.

The Framework permits new objects to be defined for the purpose of experimentation and evaluation.

### 2.1. Object Definitions

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. Objects in the MIB are defined using the subset of Abstract Syntax Notation One (ASN.1) defined in the SMI. In particular, each object type is named by an OBJECT IDENTIFIER, an administratively assigned name. The object type together with an object instance serves to uniquely identify a specific instantiation of the object. For human convenience, we often use a textual string, termed the descriptor, to refer to the object type.

Internet Draft

Event MIB

26 March 1997

### [3.](#) Overview

This MIB is based heavily on the RMON and Manager-to-Manager MIBs. It depends on the services of the Target, Notification, and Expression MIBs.

All of this must suit either a relatively powerful manager or mid-level manager, as well as a somewhat more limited self-managing system.

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Internet Draft

Event MIB

26 March 1997

#### [4.](#) Definitions

EVENT-MIB DEFINITIONS ::= BEGIN

##### IMPORTS

```
MODULE-IDENTITY, OBJECT-TYPE,
experimental, Integer32, Unsigned32
NOTIFICATION-TYPE          FROM SNMPv2-SMI
TEXTUAL-CONVENTION, RowStatus,
TimeStamp, DisplayString,
AutonomousType, DateAndTime FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP      FROM SNMPv2-CONF
EntryIndex, EntryName,
EntryIndexOrZero              FROM MANAGEMENT-TARGET-MIB
FailureReason                  FROM NOTIFICATION-MIB
```

##### eventMIB MODULE-IDENTITY

```
LAST-UPDATED "9703241700Z"
ORGANIZATION "IETF Distributed Management Working Group"
CONTACT-INFO "Bob Stewart
              Cisco Systems, Inc.
              170 West Tasman Drive,
              San Jose CA 95134-1706.
              Phone: +1 408 526 4527"
```

Email: bstewart@cisco.com"

DESCRIPTION

"The MIB module for defining event triggers and actions for network management purposes."

::= { experimental xx }

eventMIBObjects OBJECT IDENTIFIER ::= { eventMIB 1 }

mteTrigger OBJECT IDENTIFIER ::= { eventMIBObjects 1 }

mteEvent OBJECT IDENTIFIER ::= { eventMIBObjects 2 }

--

-- Trigger Section

--

mteTriggerLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the most recent addition or

Expires 26 March 1997+6 months

[Page 5]

---

Internet Draft

Event MIB

26 March 1997

deletion of a trigger or a trigger name change.

A management application can monitor this object to know that the trigger list has changed in a way requiring reloading of the trigger names."

::= { mteTrigger 1 }

mteTriggerFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an attempt to check for a trigger condition has failed. This counts individually for each attempt in a group of targets or each attempt for a wildcarded object."

::= { mteTrigger 2 }

mteTriggerLastFailedTrigger OBJECT-TYPE  
SYNTAX triggerIndex  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The trigger that last failed an attempt to check for a  
trigger condition."  
 ::= { mteTrigger 3 }

mteTriggerLastFailedReason OBJECT-TYPE  
SYNTAX FailureReason  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The reason for the last failure of an attempt to check  
for a trigger condition."  
 ::= { mteTrigger 4 }

mteTriggerLastFailedTargetGroup OBJECT-TYPE  
SYNTAX EntryIndexOrZero  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The target group of the last failed attempt to check a  
trigger condition. The value 0 means this does not apply."  
 ::= { mteTrigger 5 }

Expires 26 March 1997+6 months

[Page 6]

---

Internet Draft

Event MIB

26 March 1997

mteTriggerLastFailedTargetScope OBJECT-TYPE  
SYNTAX EntryIndexOrZero  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The target scope of the last failed attempt to check a  
trigger condition. The value 0 means this does not apply"  
 ::= { mteTrigger 6 }

mteTriggerLastValueID OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The object identifier from mteTriggerValueID from the last attempt to check a trigger condition. This must be as full-qualified as possible, including filling in wild-card information determined in processing."  
 ::= { mteTrigger 7 }

mteTriggerLastValue OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS notification-only  
STATUS current  
DESCRIPTION  
"The value of the object at mteTriggerValueID when a trigger fires."  
 ::= { mteTrigger 8 }

mteTriggerTargetScope OBJECT-TYPE  
SYNTAX EntryIndexOrZero  
MAX-ACCESS notification-only  
STATUS current  
DESCRIPTION  
"The targetIndex of the scope for which the trigger fires or for which a check was attempted."  
 ::= { mteTrigger 9 }

--  
-- Trigger Creation Table  
--

mteTriggerCreationTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MteTriggerCreationEntry

Expires 26 March 1997+6 months

[Page 7]

---

Internet Draft

Event MIB

26 March 1997

MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"A table of triggers for network management events."  
 ::= { mteTrigger 10 }

```

mteTriggerCreationEntry OBJECT-TYPE
    SYNTAX      MteTriggerCreationEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Information about a single trigger.

        To create an entry create the named entry in this
        table and activate it with mteTriggerCreationStatus.  Then use
        mteTriggerIndex to populate mteTriggerTable.

        Deleting an entry deletes the related entry in
        mteTriggerTable."
    INDEX       { IMPLIED mteTriggerCreationName }
    ::= { mteTriggerCreationTable 1 }

MteTriggerCreationEntry ::= SEQUENCE {
    mteTriggerCreationName      EntryName,
    mteTriggerIndex             EntryIndex,
    mteTriggerCreationStatus    RowStatus
}

mteTriggerCreationName OBJECT-TYPE
    SYNTAX      EntryName
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A locally-unique, administratively assigned name for the
        trigger."
    ::= { mteTriggerCreationEntry 1 }

mteTriggerIndex OBJECT-TYPE
    SYNTAX      EntryIndex
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The numeric identification of the trigger."
    ::= { mteTriggerCreationEntry 2 }

mteTriggerCreationStatus OBJECT-TYPE

```

```

SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
    "The control that allows creation/deletion of entries.
    Once made active an entry may not be modified except to
    delete it or change its name via mteTriggerName."
 ::= { mteTriggerCreationEntry 3 }

--
-- Trigger Table
--

mteTriggerTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF MteTriggerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table of management event trigger information."
    ::= { mteTrigger 11 }

mteTriggerEntry OBJECT-TYPE
    SYNTAX      MteTriggerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Information about a single management event trigger.

        An entry appears in this table when an mteTriggerCreationEntry
        is activated. Deleting the matching mteTriggerCreationEntry
        deletes this entry."
    INDEX      { mteTriggerIndex }
    ::= { mteTriggertable 1 }

MteTriggerEntry ::= SEQUENCE {
    mteTriggerName      EntryName,
    mteTriggerComment   DisplayString,
    mteTriggerTest      INTEGER,
    mteTriggerValueID   Integer32,
    mteTriggerFrequency Integer32,
    mteTriggerTarget    EntryIndexOrZero,
    mteTriggerRisingThreshold Integer32,
    mteTriggerFallingThreshold Integer32,
    mteTriggerEvent     EntryIndexOrZero,
    mteTriggerRisingEvent EntryIndexOrZero,

```

Internet Draft

Event MIB

26 March 1997

```
    mteTriggerFallingEvent      EntryIndexOrZero
}
```

mteTriggerName OBJECT-TYPE

SYNTAX EntryName

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The unique name of the target trigger, identical to  
mteTriggerCreationName.

Use this object to change the trigger's mteTriggerCreationName  
without changing its mteTriggerIndex."

::= { mteTriggerEntry 1 }

mteTriggerComment OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A description of the trigger's function and use."

DEFVAL { 'H' }

::= { mteTriggerEntry 2 }

mteTriggerTest OBJECT-TYPE

SYNTAX INTEGER { boolean(1), threshold(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of trigger test to perform. For all tests,  
mteTriggerValue must evaluate to an integer.

For 'boolean', a value of 0 is false. A non-zero value  
is true and fires the trigger.

For 'threshold' it works like RMON and the text needs to  
be copied into this MIB."

DEFVAL { boolean }

::= { mteTriggerEntry 3 }

mteTriggerValueID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-write

STATUS current  
DESCRIPTION

Expires 26 March 1997+6 months

[Page 10]

---

Internet Draft

Event MIB

26 March 1997

"The object identifier of the MIB object to check to see if the trigger should fire.

This may be wildcarded by truncating all or part of the instance portion, in which case the condition is obtained as if with a GetNext function, checking multiple values if they exist."

DEFVAL { 0 0 }  
 ::= { mteTriggerEntry 4 }

mteTriggerFrequency OBJECT-TYPE

SYNTAX Integer32 (1..65535)  
UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current

DESCRIPTION

"The number of seconds to wait between trigger condition checks. To encourage consistency in sampling, the interval is measured from the beginning of one check to the beginning of the next."

DEFVAL { 600 }  
 ::= { mteTriggerEntry 5 }

mteTriggerTarget OBJECT-TYPE

SYNTAX EntryIndexOrZero  
MAX-ACCESS read-write  
STATUS current

DESCRIPTION

"The targetIndex of the scope or group of scopes from which to obtain the condition for a trigger check.

A value of 0 indicates the local system."

DEFVAL { 0 }  
 ::= { mteTriggerEntry 6 }

mteTriggerRisingThreshold OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A threshold value to check against if mteTriggerType is 'threshold'. In this case if the value of the object at mteTriggerValueID is greater than or equal to this threshold and the value at the last sampling interval was less than this threshold, one mteTriggerRisingEvent is triggered.

Expires 26 March 1997+6 months

[Page 11]

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Internet Draft

Event MIB

26 March 1997

If mteTriggerType is not 'threshold', this object is not instantiated."

DEFVAL { 0 }

::= { mteTriggerEntry 7 }

mteTriggerFallingThreshold OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A threshold value to check against if mteTriggerType is 'threshold'. In this case if the value of the object at mteTriggerValueID is less than or equal to this threshold and the value at the last sampling interval was greater than this threshold, one mteTriggerFallingEvent is triggered.

If mteTriggerType is not 'threshold', this object is not instantiated."

DEFVAL { 0 }

::= { mteTriggerEntry 8 }

mteTriggerEvent OBJECT-TYPE

SYNTAX EntryIndexOrZero

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The event to invoke when mteTriggerType is 'boolean' and this trigger fires. A value of 0 indicates no event.

If mteTriggerType is not 'boolean', this object is not instantiated."

```
DEFVAL { 0 }
 ::= { mteTriggerEntry 9 }
```

mteTriggerRisingEvent OBJECT-TYPE

SYNTAX EntryIndexOrZero

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The event to invoke when mteTriggerType is 'threshold' and this trigger fires based on mteTriggerRisingThreshold. A value of 0 indicates no event.

If mteTriggerType is not 'threshold', this object is not instantiated."

Expires 26 March 1997+6 months

[Page 12]

---

Internet Draft

Event MIB

26 March 1997

```
DEFVAL { 0 }
 ::= { mteTriggerEntry 10 }
```

mteTriggerFallingEvent OBJECT-TYPE

SYNTAX EntryIndexOrZero

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The event to invoke when mteTriggerType is 'threshold' and this trigger fires based on mteTriggerFallingThreshold. A value of 0 indicates no event.

If mteTriggerType is not 'threshold', this object is not instantiated."

```
DEFVAL { 0 }
 ::= { mteTriggerEntry 11 }
```

```
--
-- Event Section
--
```

mteEventLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the most recent addition or deletion of an event or an event name change.

A management application can monitor this object to know that the event list has changed in a way requiring reloading of the event names."

::= { mteEvent 1 }

mteEventFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an attempt to invoke an event has failed. This counts individually for each attempt in a group of targets or each attempt for a wildcarded trigger object."

::= { mteEvent 2 }

Expires 26 March 1997+6 months

[Page 13]

---

Internet Draft

Event MIB

26 March 1997

mteEventLastFailedEvent OBJECT-TYPE

SYNTAX eventIndex

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The event that last failed an attempted invocation."

::= { mteEvent 3 }

mteEventLastFailedReason OBJECT-TYPE

SYNTAX FailureReason

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The reason for the last failure of an attempted event invocation."

::= { mteEvent 4 }

mteEventLastFailedTargetGroup OBJECT-TYPE

SYNTAX EntryIndexOrZero

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The target group of the last failed attempt to invoke an  
event. The value 0 means this does not apply."  
 ::= { mteEvent 5 }

mteEventLastFailedTargetScope OBJECT-TYPE  
SYNTAX EntryIndexOrZero  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The target scope of the last failed attempt to invoke an  
event. The value 0 means this does not apply"  
 ::= { mteEvent 6 }

--  
-- Event Creation Table  
--

mteEventCreationTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MteEventCreationEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"A table of events for network management action."

Expires 26 March 1997+6 months

[Page 14]

---

Internet Draft

Event MIB

26 March 1997

::= { mteEvent 7 }

mteEventCreationEntry OBJECT-TYPE  
SYNTAX MteEventCreationEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Information about a single event.  
  
To create an entry create the named entry in this  
table and activate it with mteEventCreto  
mteTriggerCreationName.

Use this object to change the trigger's mteTriggerCreationName without changing its mteTriggerIndex."  
 ::= { mteTriggerEntry 1 }

mteTriggerComment OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
 "A description of the trigger's function and use."  
DEFVAL { 'H' }  
 ::= { mteTriggerEntry 2 }

mteTriggerTest OBJECT-TYPE  
SYNTAX INTEGER { boolean(1), threshold(2) }  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
 "The type of trigger test to perform. For all tests,  
 mteTriggerValue must evaluate to an integer.  
  
 For 'boolean', a value of 0 is false. A non-zero value  
 is true and fires the trigger.  
  
 For 'threshold' it works like RMON and the text needs to  
 be copied into this MIB."  
DEFVAL { boolean }  
 ::= { mteTriggerEntry 3 }

mteTriggerValueID OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The object identifier of the MIB object to check to see if the trigger should fire.

This may be wildcarded by truncating all or part of the instance portion, in which case the condition is obtained

as if with a GetNext function, checking multiple values if they exist."  
DEFVAL { 0 0 }  
::= { mteTriggerEntry 4 }

mteTriggerFrequency OBJECT-TYPE

SYNTAX Integer32 (1..65535)  
UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"The number of seconds to wait between trigger condition checks. To encourage consistency in sampling, the interval is measured from the beginning of one check to the beginning of the next."  
DEFVAL { 600 }  
::= { mteTriggerEntry 5 }

mteTriggerTarget OBJECT-TYPE

SYNTAX EntryIndexOrZero  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"The targetIndex of the scope or group of scopes from which to obtain the condition for a trigger check.  
  
A value of 0 indicates the local system."  
DEFVAL { 0 }  
::= { mteTriggerEntry 6 }

mteTriggerRisingThreshold OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"A threshold value to check against if mteTriggerType is 'threshold'. In this case if the value of the object at mteTriggerValueID is greater than or equal to this threshold and the value at the last sampling interval was less than this threshold, one mteTriggerRisingEvent is triggered.

If mteTriggerType is not 'threshold', this object is not instantiated."

DEFVAL { 0 }

::= { mteTriggerEntry 7 }

mteTriggerFallingThreshold OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A threshold value to check against if mteTriggerType is 'threshold'. In this case if the value of the object at mteTriggerValueID is less than or equal to this threshold and the value at the last sampling interval was greater than this threshold, one mteTriggerFallingEvent is triggered.

If mteTriggerType is not 'threshold', this object is not instantiated."

DEFVAL { 0 }

::= { mteTriggerEntry 8 }

mteTriggerEvent OBJECT-TYPE

SYNTAX EntryIndexOrZero

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The event to invoke when mteTriggerType is 'boolean' and this trigger firesTIFIER

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The object identifier from the NOTIFICATION-TYPE for the notification to use if metEventActions has 'notification', 'trap', or 'inform' set.

If none of the above bits are set, this object is not instantiated."

DEFVAL { 0 0 }

::= { mteEventEntry 4 }

```

mteEventSetObject OBJECT-TYPE
    SYNTAX      OBJECT IDENTIFIER
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The object identifier from the MIB object to set if
         metEventActions has 'set' set.

         If 'set' is not set, this object is not instantiated."
    DEFVAL { 0 0 }
    ::= { mteEventEntry 5 }

mteEventSetValue OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The value to which to set the object at mteEventSetObect."
    DEFVAL { 0 }
    ::= { mteEventEntry 6 }

mteEventSetTarget OBJECT-TYPE
    SYNTAX      EntryIndexOrZero
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "A scope or group of scopes in which to the object at
         mteEventSetObject to mteEventSetValue. A value of 0
         indicates the local system."
    DEFVAL { 0 }
    ::= { mteEventEntry 7 }

--
-- Notifications
--

eventMIBNotificationPrefix OBJECT IDENTIFIER ::= { eventMIB 2 }
eventMIBNotifications OBJECT IDENTIFIER ::= { eventMIBNotificationPrefix 0 }

```

mteTriggerSenseAlarm NOTIFICATION-TYPE

OBJECTS { mteTriggerName,  
          mteTriggerTargetScope,  
          mteTriggerLastValueID,  
          mteTriggerLastValue }

STATUS current

DESCRIPTION

"Notification that the trigger indicated by the object instances has fired, for triggers with mteTriggerType 'boolean'."

::= { eventMIBNotifications 1 }

mteTriggerRisingAlarm NOTIFICATION-TYPE

OBJECTS { mteTriggerName,  
          mteTriggerTargetScope,  
          mteTriggerLastValueID,  
          mteTriggerLastValue }

STATUS current

DESCRIPTION

"Notification that the rising threshold was met for triggers with mteTriggerType 'threshold'."

::= { eventMIBNotifications 2 }

mteTriggerFallingAlarm NOTIFICATION-TYPE

OBJECTS { mteTriggerName,  
          mteTriggerTargetScope,  
          mteTriggerLastValueID,  
          mteTriggerLastValue }

STATUS current

DESCRIPTION

"Notification that the falling threshold was met for triggers with mteTriggerType 'threshold'."

::= { eventMIBNotifications 3 }

mteTriggerFailureAlarm NOTIFICATION-TYPE

OBJECTS { mteTriggerName,  
          mteTriggerLastFailedReason,  
          mteTriggerLastFailedTargetGroup,  
          mteTriggerLastFailedTargetScope,  
          mteTriggerLastFailedValueID }

STATUS current

DESCRIPTION

"Notification that an attempt to check a trigger has failed.

The network manager must enable this notification only with

Internet Draft

Event MIB

26 March 1997

a certain fear and trembling, as it can easily crowd out more important information. It should be used only to help diagnose a problem that has appeared in the error counters and can not be found otherwise."

```
::= { eventMIBNotifications 4 }
```

mteEventFailureAlarm NOTIFICATION-TYPE

```
OBJECTS { mteTriggerName,  
          mteTriggerTargetScope,  
          mteTriggerLastValueID,  
          mteTriggerLastValue,  
          mteEventLastFailedReason,  
          mteEventLastFailedTargetGroup,  
          mteEventLastFailedTargetScope }
```

```
STATUS current
```

```
DESCRIPTION
```

"Notification that an attempt to check a trigger has failed.

The network manager must enable this notification only with a certain fear and trembling, as it can easily crowd out more important information. It should be used only to help diagnose a problem that has appeared in the error counters and can not be found otherwise."

```
::= { eventMIBNotifications 5 }
```

```
-- The compliance statements have yet to be written. The intent is  
-- that all objects are required except where otherwise mentioned above  
-- and that a self-managing system need not support groups, remote checking,  
-- or wildcarding.
```

```
END
```

Internet Draft

Event MIB

26 March 1997

## [5.](#) Acknowledgements

This MIB contains considerable contributions from the RMON MIB, the Distributed Management Design Team (Andy Bierman, Maria Greene, Bob Stewart, and Steve Waldbusser), and colleagues at Cisco.

Internet Draft

Event MIB

26 March 1997

## 6. References

- [1] SNMPv2 Working Group, Case, J., McCloghrie, K., Rose, M., and S. Waldbusser, "Structure of Management Information for version 2 of the Simple Network Management Protocol (SNMPv2)", [RFC 1902](#), January 1996.
- [2] McCloghrie, K., and M. Rose, Editors, "Management Information Base for Network Management of TCP/IP-based internets: MIB-II", STD 17, [RFC 1213](#), March 1991.
- [3] Case, J., Fedor, M., Schoffstall, M., and J. Davin, "Simple Network Management Protocol", [RFC 1157](#), May 1990.
- [4] SNMPv2 Working Group, Case, J., McCloghrie, K., Rose, M., and S. Waldbusser, "Protocol Operations for version 2 of the Simple Network Management Protocol (SNMPv2)", [RFC 1905](#), January 1996.

Internet Draft

Event MIB

26 March 1997

7. Security Considerations

Security issues are not discussed in this memo.

8. Author's Address

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Internet Draft

Event MIB

26 March 1997

Table of Contents

<a href="#">1</a> Abstract .....	<a href="#">2</a>
<a href="#">2</a> The SNMP Network Management Framework .....	<a href="#">3</a>
<a href="#">2.1</a> Object Definitions .....	<a href="#">3</a>
<a href="#">3</a> Overview .....	<a href="#">4</a>
<a href="#">4</a> Definitions .....	<a href="#">5</a>
<a href="#">5</a> Acknowledgements .....	<a href="#">21</a>
<a href="#">6</a> References .....	<a href="#">22</a>
<a href="#">7</a> Security Considerations .....	<a href="#">23</a>
<a href="#">8</a> Author's Address .....	<a href="#">23</a>

Expires 26 March 1997+6 months

[Page 24]