PacketCable™ 1.5 Specifications

Management Event MIB Specification

PKT-SP-EVEMIB1.5-I02-050812

ISSUED

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Key to Document Status Codes:

**Work in Progress**
An incomplete document, designed to guide discussion and generate feedback, that may include several alternative requirements for consideration.

**Draft**
A document in specification format considered largely complete, but lacking review by Members and vendors. Drafts are susceptible to substantial change during the review process.

**Issued**
A stable document, which has undergone rigorous member and vendor review and is suitable for product design and development, cross-vendor interoperability, and for certification testing.

**Closed**
A static document, reviewed, tested, validated, and closed to further engineering change requests to the specification through CableLabs.

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1 SCOPE

1.1 Introduction and Overview

The Management Event MIB provides a common data and format definition for events (informative, alarm, etc.). It also specifies by what means events are transmitted. Use of a common event mechanism facilitates management of the MTA in a multi-vendor environment and provides a standard means to implement PacketCable™ specified events.

1.2 Purpose of document

This document describes an SNMP MIB in SMIv2, to support the management event mechanism as described in [1]. It is intended to be implemented in the MTA and management devices.

1.3 Organization of document

The Management Event MIB defined in this document provides a set of objects required for the management of PacketCable compliant MultiMedia Terminal Adapter (MTA) devices. The mechanisms to control the event reporting are defined in this specification.

This MIB itself is structured as six groups:

- Management information that controls the event reporting (pktcDevEventControl).
- Management information that configures the reporting of the various programmable events (pktcDevEventConfig).
- Management information that configures the event throttling control (pktcDevEventThrottle).
- Management information that configures that allows the retrieval of events via SNMP (pktcDevEventLocal).
- Management information that specifies the information sent in traps and informs (pktcDevEventNotify).
- Management information that defines the trap and inform messages (pktcDevEventNotification).

1.4 Requirements

Throughout this document, the words that are used to define the significance of particular requirements are capitalized. These words are:

"MUST" This word or the adjective "REQUIRED" means that the item is an absolute requirement of this specification.

"MUST NOT" This phrase means that the item is an absolute prohibition of this specification.

"SHOULD" This word or the adjective "RECOMMENDED" means that there may exist valid reasons in particular circumstances to ignore this item, but the full implications should be understood and the case carefully weighed before choosing a different course.
"SHOULD NOT" This phrase means that there may exist valid reasons in particular circumstances when the listed behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.

"MAY" This word or the adjective "OPTIONAL" means that this item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because it enhances the product, for example; another vendor may omit the same item.

2 REFERENCES

2.1 Normative

In order to claim compliance with this specification, it is necessary to conform to the following standards and other works as indicated, in addition to the other requirements of this specification. Notwithstanding, intellectual property rights may be required to use or implement such normative references.

[1] PacketCable 1.5 Management Event Mechanism, PKT-SP-MEM1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.
[7] PacketCable 1.5 MTA Device Provisioning Specification, PKT-SP-PROV1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.

2.2 Informative

[8] PacketCable 1.5 MTA MIB, PKT-SP-MIB-MTA1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.
[9] PacketCable 1.5 Signaling MIB, PKT-SP-MIB-SIG1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.
[10] PacketCable 1.5 Network-Based Call Signaling Protocol Specification, PKT-SP-NCS1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.

2.3 Reference Acquisition

- Cable Television Laboratories, Inc., 858 Coal Creek Circle, Louisville, CO 80027; Phone 303-661-9100; Fax 303-661-9199; Internet: http://www.cablelabs.com
- Internet Engineering Task Force (IETF) Secretariat c/o Corporation for National Research Initiatives, 1895 Preston White Drive, Suite 100, Reston, VA 20191-5434, Phone 703-620-8990, Fax 703-620-9071, Internet http://www.ietf.org/
3 TERMS AND DEFINITIONS

This PacketCable specification uses the following terms and definitions:

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endpoint</td>
<td>A Terminal, Gateway or MCU</td>
</tr>
</tbody>
</table>

4 ABBREVIATIONS AND ACRONYMS

This PacketCable specification uses the following abbreviations:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-MTA</td>
<td>Embedded MTA – a single node which contains both an MTA and a cable modem.</td>
</tr>
<tr>
<td>FQDN</td>
<td>Fully Qualified Domain Name. Refer to IETF RFC 1594 for details.</td>
</tr>
<tr>
<td>IANA</td>
<td>Internet Assigned Numbered Authority. See <a href="http://www.ietf.org">www.ietf.org</a> for details.</td>
</tr>
<tr>
<td>IETF</td>
<td>Internet Engineering Task Force. A body responsible, among other things, for developing standards used in the Internet.</td>
</tr>
<tr>
<td>IP</td>
<td>Internet Protocol. An Internet network-layer protocol.</td>
</tr>
<tr>
<td>MAC</td>
<td>Media Access Control. It is a sublayer of the Data Link Layer. It normally runs directly over the physical layer.</td>
</tr>
<tr>
<td>MTA</td>
<td>Multimedia Terminal Adapter.</td>
</tr>
</tbody>
</table>
5 PACKETCABLE MANAGEMENT EVENT MIB

The PacketCable 1.5 Management Event MIB MUST be implemented as defined below.

PKTC-EVENT-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE,
  Unsigned32, NOTIFICATION-TYPE,
  BITS                             FROM SNMPv2-SMI
  DateAndTime                      FROM SNMPv2-TC
  clabProjPacketCable              FROM CLAB-DEF-MIB
  SnmpAdminString                  FROM SNMP-FRAMEWORK-MIB
  OBJECT-GROUP,
  MODULE-COMPLIANCE,
  NOTIFICATION-GROUP               FROM SNMPv2-CONF
  ifPhysAddress                    FROM IF-MIB
  InetAddressType, InetAddress,
  InetPortNumber                   FROM INET-ADDRESS-MIB ;

pktcEventMib MODULE-IDENTITY
  LAST-UPDATED   "200508120000Z" -- August 12, 2005
  ORGANIZATION   "Cable Television Laboratories, Inc"
  CONTACT-INFO
    "Sumanth Channabasappa
     Postal: Cable Television Laboratories, Inc.
     858 Coal Creek Circle
     Louisville, Colorado 80027
     U.S.A.
     Phone: +1 303-661-9100
     Fax:    +1 303-661-9199
     E-mail: mibs@cablelabs.com"

  DESCRIPTION
    "This MIB module supplies the basic management objects
    for event reporting

    Acknowledgements:
    Eugene Nechamkin       - Broadcom Corp
    John Berg              - CableLabs, Inc.
    Kevin Marez            - Motorola, Inc.
    Satish Kumar           - Texas Instruments
    Venkatesh Sunkad       - CableLabs, Inc."

::=  { clabProjPacketCable 3 }

--
--

pktcDevEventControl    OBJECT IDENTIFIER ::= { pktcEventMib 1 }
pktcDevEventThrottle   OBJECT IDENTIFIER ::= { pktcEventMib 2 }
pktcDevEventStatus     OBJECT IDENTIFIER ::= { pktcEventMib 3 }
pktcDevEventDescr      OBJECT IDENTIFIER ::= { pktcEventMib 4 }
pktcDevEventLog        OBJECT IDENTIFIER ::= { pktcEventMib 5 }
pktcDevEvNotification  OBJECT IDENTIFIER ::= { pktcEventMib 6 }

--

--- Event Reporting control objects
---

pktcDevEvControl OBJECT-TYPE
SYNTAX        BITS {
  resetEventLogTable(0),
  resetEventDescrTable(1)
MAX-ACCESS read-write

DESCRIPTION
"This MIB object defines the actions related to the event log configuration.

The MTA MUST take the appropriate action whenever a bit is set to a value of '1'.

Setting the resetEventLogTable(0) bit to a value of '1' clears the entire event log (Deletes all entries in pktcDevEventLogTable).

Setting resetEventDescrTable(1) to a value of '1' resets the pktcDevEventDescrTable to the factory default values.

Setting a control bit to a value of '0' MUST not result in any action.

Reading this MIB object MUST always return '00'."

::= { pktcDevEventControl 1 }

pktcDevEvSyslogAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This MIB Object defines the address type of the Syslog server.
PacketCable devices implementing this MIB MUST support an InetAddressType of ipv4(1).
PacketCable devices MAY optionally implement other address types.

If an unsupported InetAddressType is used to set this object, the PacketCable device MUST reject it and report an SNMP error stating 'wrong value'.

If an SNMP SET results in a type that does not match the value contained in the MIB Object pktcDevEvSyslogAddressType, the PacketCable device MUST reject the SNMP SET with an 'inconsistent value' error."

::= { pktcDevEventControl 2 }

pktcDevEvSyslogAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This MIB Object contains the IP address of the Syslog server. If this is set to either 0.0.0.0 or 255.255.255.255 the device MUST inhibit syslog transmission.
The use of FQDNs is syntactically allowed, but discouraged since a failure to resolve them in a timely manner may leave the device without access to the Syslog daemon during critical network events.
The type of address this object represents is defined by the MIB Object pktDevEvSyslogAddressType.

If an SNMP SET results in a type that does not match that indicated by the MIB Object pktcDevEvSyslogAddressType, the PacketCable device MUST reject the SNMP SET with an 'inconsistent value' error."
::= { pktcDevEventControl 3 }
pktcDevEvSyslogUdpPort  OBJECT-TYPE
SYNTAX      InetPortNumber
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
"This MIB Object contains the UDP Port Number of the Syslog Server. The PacketCable device must send the Syslog messages to this port on the Syslog Server."
DEFVAL { 514 }
::= { pktcDevEventControl 4 }

--
-- Event throttling control
--

pktcDevEvThrottleAdminStatus  OBJECT-TYPE
SYNTAX      INTEGER {
    unconstrained(1),
    maintainBelowThreshold(2),
    stopAtThreshold(3),
    inhibited(4)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
"This MIB Object controls the throttling of the transmitted messages upon generation of an event (SNMP/Syslog).

A value of unconstrained(1) causes event messages to be transmitted without regard to the threshold settings.

A value of maintainBelowThreshold(2) causes event messages to be suppressed if the number of transmissions would otherwise exceed the threshold.
A value of stopAtThreshold(3) causes event message transmission to cease at the threshold, and not resume until directed to do so.

A value of inhibited(4) causes all event message transmission to be suppressed.

An event causing both an SNMP and a Syslog message is still treated as a single event.

Writing to this object resets the thresholding state.

Refer to MIB Objects pktcDevEvThrottleThreshold and pktcDevEvThrottleInterval for information on throttling."
DEFVAL { unconstrained }
::= { pktcDevEventThrottle 1 }

pktcDevEvThrottleThreshold  OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
"This MIB Object contains the number of events per pktcDevEvThrottleInterval to be transmitted before throttling."
An event causing both a SNMP and a syslog message is still treated as a single event.

DEFVAL { 2 }
::= { pktcDevEventThrottle 2 }

pktcDevEvThrottleInterval OBJECT-TYPE
SYNTAX      Unsigned32
UNITS       "seconds"
MAX-ACCESS read-write
STATUS      current
DESCRIPTION
"This MIB Object contains the interval over which the throttle threshold applies." DEFVAL { 1 }
::= { pktcDevEventThrottle 3 }

---
-- Status Reporting
---

pktcDevEvTransmissionStatus OBJECT-TYPE
SYNTAX      BITS {
  syslogThrottled(0),
  snmpThrottled(1),
  validSyslogServerAbsent(2),
  validSnmpManagerAbsent(3),
  syslogTransmitError(4),
  snmpTransmitError(5)
}
MAX-ACCESS read-only
STATUS      current
DESCRIPTION
"This MIB Object reflects the status of the event transmission.

If a bit corresponding to a state is set to a value of:
'1', it indicates that the state is true
'0', it indicates that the state is false

'Event throttling' is based on thresholds and the current setting of pktcDevEvThrottleAdminStatus.

'Server/Manager' indicators must be based on the availability of valid Syslog server/SNMP managers.

'Transmit Errors' must only be used in cases where the PacketCable Device can identify unavailable servers."

::= { pktcDevEventStatus 1 }

---
-- Event Descriptions
---

pktcDevEventDescrTable OBJECT-TYPE
SYNTAX      SEQUENCE OF PktcDevEventDescrEntry
MAX-ACCESS not-accessible
STATUS      current
DESCRIPTION
"This MIB table contains all the possible events that can be generated by the device. This includes
both PacketCable defined and vendor-specific events.

::= { pktcDevEventDescr 1 }

pktcDevEventDescrEntry OBJECT-TYPE
SYNTAX   PktcDevEventDescrEntry
MAX-ACCESS not-accessible
STATUS    current
DESCRIPTION
"An entry in this table is created for each event the PacketCable Device implementing this MIB is capable of reporting."
INDEX   { pktcDevEventDescrId, pktcDevEventDescrEnterprise }

::= { pktcDevEventDescrTable 1 }

PktcDevEventDescrEntry ::= SEQUENCE {
  pktcDevEventDescrId              Unsigned32,
pktcDevEventDescrEnterprise      Unsigned32,
pktcDevEventDescrFacility        INTEGER,
pktcDevEventDescrLevel           INTEGER,
pktcDevEventDescrReporting       BITS,
pktcDevEventDescrText            SnmpAdminString
}

pktcDevEventDescrId  OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
"This MIB Object contains the event identifier for the specific event to which the priority and display strings belong. The event identifier can either be PacketCable defined or vendor-specific."

::= { pktcDevEventDescrEntry 1 }

pktcDevEventDescrEnterprise  OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This MIB Object provides the IANA enterprise number of the Organization defining the event. Thus, all PacketCable defined events will contain the CableLabs IANA enterprise number and for vendor-specific events it will contain the IANA enterprise number of the defining organization."

::= { pktcDevEventDescrEntry 2 }

pktcDevEventDescrFacility  OBJECT-TYPE
SYNTAX      INTEGER {
  kernel(0),
  user(1),
  mail(2),
  daemon(3),
  auth(4),
  syslog(5),
  lpr(6),
  news(7),
  uucp(8),
  cron(9),
  authPriv(10),
  ftp(11),
  ntp(12),
  security(13),
  console(14),
  clockDaemon(15),
  local0(16),
local1(17),
local2(18),
local3(19),
local4(20),
local5(21),
local6(22),
local7(23)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This MIB Object contains the facility
for the event. For PacketCable events this MUST be set to
local0(16)."
::= { pktcDevEventDescrEntry 3 }

pktcDevEventDescrLevel  OBJECT-TYPE
SYNTAX      INTEGER {
    emergency(0),
    alert(1),
    critical(2),
    error(3),
    warning(4),
    notice(5),
    info(6),
    debug(7)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
"This MIB Object contains the priority level that
is controlled by this entry. The levels are described as:

emergency(0) - A condition that makes the system unusable.
alert(1)     - A service-affecting condition for which
               immediate action must be taken.
critical(2)  - A service-affecting critical condition.
error(3)     - An error condition.
warning(4)   - A warning condition.
notice(5)    - A normal but significant condition.
info(6)      - An informational message.
debug(7)     - A debug message."
::= { pktcDevEventDescrEntry 4 }

pktcDevEventDescrReporting  OBJECT-TYPE
SYNTAX      BITS {
    local(0),
    syslog(1),
    snmpTrap(2),
    snmpInform(3)
}
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
"This MIB Object defines the action to be taken on
occurrence of this event class.

Setting a bit to a value of '1' indicates that the
controlding action will be taken upon occurrence of
this event, provided the required parameters are present.
(e.g.: Syslog Server for Syslog messages, SNMP targets for
SNMP traps and SNMP INFORMs etc). If none of the bits
are set then no action is taken upon occurrence of the
event."
The default value of this MIB Object is dependent on the value of the MIB Object 'pktcDevEventDescrLevel', for the corresponding event.

For the following values of 'pktcDevEventDescrLevel':
   - emergency(0), alert(1), critical(2) and error(3),
   - the PacketCable device MUST set the bits for local(0), syslog(1) and snmpInform(3) to a value of '1' and the rest to a value of '0'.

For all the remaining values of 'pktcDevEventDescrLevel',
   - the PacketCable device MUST set the bits for local(0) and syslog(1) to a value of '1' and the rest to a value of '0'.

::= { pktcDevEventDescrEntry 5 }

pktcDevEventDescrText OBJECT-TYPE
SYNTAX SnmpAdminString(SIZE (0..127))
MAX-ACCESS read-write
STATUS current
DESCRIPTION "This MIB Object contains event display string providing a human-readable description of the event."
::= { pktcDevEventDescrEntry 6 }

---

Events generated
---

pktcDevEventLogTable OBJECT-TYPE
SYNTAX SEQUENCE OF PktcDevEventLogEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "This MIB table contains a log of the events generated by the PacketCable device. A description of all the events that can be generated by the device can be obtained from the MIB table 'pktcDevEventDescrTable'.'
::= { pktcDevEventLog 1 }

PktcDevEventLogEntry OBJECT-TYPE
SYNTAX PktcDevEventLogEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION "Each entry in this table describes an event that has occurred, indexed in the chronological order of generation. The details of the event are borrowed from the parameters associated with the corresponding event entry in 'pktcDevEventDescrTable', at the time of the event generation. While all entries created as such can be cleared using the MIB Object pktcDevEvControl, the Event entries themselves cannot be individually deleted."

INDEX { pktcDevEvLogIndex }
::= { pktcDevEventLogTable 1 }

PktcDevEventLogEntry ::= SEQUENCE {
pktcDevEvLogIndex             Unsigned32,
pktcDevEvLogTime              DateAndTime,
pktcDevEvLogEnterprise        Unsigned32,
pktcDevEvLogId                Unsigned32,
pktcDevEvLogText              SnmpAdminString,
pktcDevEvLogEndpointName      SnmpAdminString,
 pktcDevEvLogType       BITS,
 pktcDevEvLogTargetInfo   SnmpAdminString,
 pktcDevEvLogCorrelationId   Unsigned32,
 pktcDevEvLogAdditionalInfo  SnmpAdminString
}

pktcDevEvLogIndex          OBJECT-TYPE
SYNTAX        Unsigned32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "This MIB Object provides relative ordering of the
objects in the event log.
This object will always increase except when
(a) the log is reset via pktcDevEvControl,
(b) the device reboots and does not implement non-volatile
storage for this log,
(c) it reaches the value 2^31.
The next entry for all the above cases is 0.
This also serves as an indicator of event sequence."
::= { pktcDevEventLogEntry 1 }

pktcDevEvLogTime          OBJECT-TYPE
SYNTAX        DateAndTime
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "This MIB Object provides a human-readable description
of the time at which the event occurred."
::= { pktcDevEventLogEntry 2 }

pktcDevEvLogEnterprise     OBJECT-TYPE
SYNTAX        Unsigned32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "This MIB Object provides the IANA enterprise number of
the Organization defining the event. Thus, all PacketCable
defined events will contain the CableLabs IANA enterprise
number and for vendor-specific events it will contain
the IANA enterprise number of the defining organization."
::= { pktcDevEventLogEntry 3 }

pktcDevEvLogId             OBJECT-TYPE
SYNTAX        Unsigned32
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "This MIB Object contains the event identifier for the
specific event to which the priority and
display strings belong.
The event identifier can either be PacketCable defined
or vendor-specific."
::= { pktcDevEventLogEntry 4 }

pktcDevEvLogText           OBJECT-TYPE
SYNTAX        SnmpAdminString
MAX-ACCESS    read-only
STATUS        current
DESCRIPTION    "This MIB Object contains the contents of
pktcDevEventDescrText, corresponding to the event, at
the moment of generation."
::= { pktcDevEventLogEntry 5 }

pktcDevEvLogEndpointName OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This MIB Object provides the endpoint identifier followed by the PacketCable MTA's Fully Qualified Domain Name (FQDN) and the IP Address (IP) of the PacketCable MTA device.

This will be denoted as follows:
aaln/n:<FQDN>/<IP>, where 'n' is the Endpoint number.
or
<FQDN>/<IP> if it is not specific to an endpoint."
::= { pktcDevEventLogEntry 6 }

pktcDevEvLogType OBJECT-TYPE
SYNTAX BITS {
  local(0),
  syslog (1),
  trap (2),
  inform (3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This MIB Object contains the kind of actions taken by the PacketCable device when the event under consideration occurred.

A bit with a value of 1 indicates the corresponding action was taken. Setting it to a value of 0 indicates that the corresponding action was not taken.

An event may trigger one or more actions (e.g.: Syslog and SNMP) or may remain as a local event since transmissions could be disabled or inhibited as defined by the Throttle MIB Objects."
::= { pktcDevEventLogEntry 7 }

pktcDevEvLogTargetInfo OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This MIB Object contains a comma separated list of the actions taken, along with the target IP address for the generated event.

The syntax is as:

Where <action-n/IP> is to be denoted as follows:
For Syslog events:
syslog/<IP address of the Syslog Server:port>
For SNMP traps:
snmpTrap/<IP address of the SNMP Server:port>
For SNMP INFORMS:
snmpInform/<IP address of the SNMP Server:port>

If there are multiple targets for the same type (SNMP
Traps sent to multiple IP addresses) or if there are multiple messages sent to the same IP (Syslog and SNMP sent to the same IP address) they need to be reported individually."

::= { pktcDevEventLogEntry 8 }

pktcDevEvLogCorrelationId OBJECT-TYPE
SYNTAX    Unsigned32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION " This MIB Object contains the correlation ID generated by the MTA as per section 5.4.5 of [7] that was being used by the MTA when the event was generated."

::= { pktcDevEventLogEntry 9 }

pktcDevEvLogAdditionalInfo OBJECT-TYPE
SYNTAX    SnmpAdminString
MAX-ACCESS read-only
STATUS     current
DESCRIPTION "This MIB Object contains additional, useful information in relation to the corresponding event that a PacketCable device might wish to report (for example: parameterized data or debugging information). The format is vendor-specific. However, the PacketCable device is not required to implement this functionality."

::= { pktcDevEventLogEntry 10 }

---

-- Notifications

---

pktcDevEvNotificationIndex OBJECT IDENTIFIER ::= { pktcDevEvNotification 0 }

pktcDevEvInform NOTIFICATION-TYPE
OBJECTS { pktcDevEvLogIndex, pktcDevEvLogTime, pktcDevEvLogEnterprise, pktcDevEvLogId, pktcDevEvLogEndpointName, pktcDevEvLogCorrelationId, ifPhysAddress }
STATUS     current
DESCRIPTION "This Notification MIB Objects contains the Inform contents for event reporting "

::= { pktcDevEvNotificationIndex 1 }

pktcDevEvTrap NOTIFICATION-TYPE
OBJECTS { pktcDevEvLogIndex, pktcDevEvLogTime, pktcDevEvLogEnterprise, pktcDevEvLogId, pktcDevEvLogEndpointName, pktcDevEvLogCorrelationId, ifPhysAddress }
STATUS     current
DESCRIPTION "This Notification MIB Objects contains the Trap contents for event reporting "

::= { pktcDevEvNotificationIndex 2 }

---

-- Conformance/Compliance

---

pktcEventConformance OBJECT IDENTIFIER ::= { pktcEventMib 7 }
pktcEventCompliances OBJECT IDENTIFIER ::= { pktcEventConformance 1 }
pktcEventGroups OBJECT IDENTIFIER ::= { pktcEventConformance 2 }
pktcEventBasicCompliance MODULE-COMPLIANCE
  STATUS   current
  DESCRIPTION
    "The compliance statement for devices that implement
    Event reporting feature."
  MODULE   --pktcEventMib

MANDATORY-GROUPS {
  pktcEventGroup,
  pktcEventNotificationGroup
}

-- units of conformance
 ::= { pktcEventCompliances 3 }

pktcEventGroup OBJECT-GROUP
  OBJECTS {
    pktcDevEvControl,
    pktcDevEvSyslogAddressType,
    pktcDevEvSyslogAddress,
    pktcDevEvSyslogUdpPort,
    pktcDevEvThrottleAdminStatus,
    pktcDevEvThrottleThreshold,
    pktcDevEvThrottleInterval,
    pktcDevEvTransmissionStatus,
    pktcDevEventDescrEnterprise,
    pktcDevEventDescrFacility,
    pktcDevEventDescrLevel,
    pktcDevEventDescrReporting,
    pktcDevEventDescrText,
    pktcDevEvLogIndex,
    pktcDevEvLogTime,
    pktcDevEvLogEnterprise,
    pktcDevEvLogId,
    pktcDevEvLogText,
    pktcDevEvLogEndpointName,
    pktcDevEvLogType,
    pktcDevEvLogTargetInfo,
    pktcDevEvLogCorrelationId,
    pktcDevEvLogAdditionalInfo
  }

  STATUS   current
  DESCRIPTION
    "Group of MIB objects for PacketCable Management Event
    MIB."
  ::= { pktcEventGroups 1 }

pktcEventNotificationGroup NOTIFICATION-GROUP
  NOTIFICATIONS { pktcDevEvInform, pktcDevEvTrap }
  STATUS   current
  DESCRIPTION
    "Group of MIB objects for notifications related to
    change in status of the MTA Device."
  ::= { pktcEventGroups 2 }
END
Appendix A Acknowledgements

On behalf of CableLabs and its participating member companies, we would like to extend a heartfelt thanks to all those who contributed to the development of this specification. Certainly all the participants of the provisioning focus team have added value to this effort by participating in the review and weekly conference calls. Particular thanks are given to:

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Appendix B Revision History

The following ECN was incorporated in PKT-SP-EVEMIB1.5-I02-050812.

<table>
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<td>EVEMIB1.5-N-05.0282-1</td>
<td>7/13/05</td>
<td>Event MIB Objects definitions clarification</td>
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