AMERICAN NATIONAL STANDARD

ANSI/SCTE 165-20 2019

IPCablecom 1.5 Part 20: MTA Extension MIB
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1 INTRODUCTION

1.1 Purpose of the Document

New objects that are being introduced beyond IPCablecom 1.0 for MTA MIBS are being grouped in this document so that the additional changes made can be tracked easily.

1.2 Requirements and Conventions

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

The following documents contain provisions which, through reference in this text, constitute provisions of this standard. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision, and while parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

2.1 Normative References

In order to claim compliance with this standard, it is necessary to conform to the following standards and other works as indicated, in addition to the other requirements of this standard. Intellectual property rights may be required to implement these references.

[3] IETF RFC 2669, Cable Device Management Information Base for DOCSIS Compliant Cable Modems and Cable Modem Termination Systems.

2.2 Informative References

The following documents may provide valuable information to the reader but are not required when complying with this standard.

3 ABBREVIATIONS

There are no abbreviations used in this document.
4 REQUIREMENTS

The IPCablecom Extension MTA MIB MUST be implemented as defined below.

PKTC-EN-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE FROM SNMPv2-SMI
  OBJECT-GROUP, MODULE-COMPLIANCE FROM SNMPv2-CONF
  pktcEnhancements FROM CLAB-DEF-MIB;

pktcEnMtaMib MODULE-IDENTITY
LAST-UPDATED "200501280000Z – January 28, 2005"
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DESCRIPTION
"This MIB module enhances the basic management objects
defined for the PacketCable MTA Device device by
the MIB group pktcMtaMib.

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REVISION "2005012800000Z"
DESCRIPTION
"This revision is being published as part of the PacketCable
MTA MIBs enhancements for PacketCable 1.5."
::= { pktcEnhancements 1 }

--
-- PacketCable Enhanced MTA MIB Objects
--
pktcEnMtaMibObjects OBJECT IDENTIFIER ::= { pktcEnMtaMib 1 }
pktcEnMtaDevBase OBJECT IDENTIFIER ::= { pktcEnMtaMibObjects 1 }
pktcEnMtaDevServer OBJECT IDENTIFIER ::= { pktcEnMtaMibObjects 2 }
pktcEnMtaDevSecurity OBJECT IDENTIFIER ::= { pktcEnMtaMibObjects 3 }

--
-- Enhanced notification group.
--
pktcEnMtaNotificationPrefix OBJECT IDENTIFIER ::= { pktcEnMtaMib 2 }
pktcEnMtaNotification OBJECT IDENTIFIER ::= { pktcEnMtaNotificationPrefix 0 }
pktcEnMtaConformance  OBJECT IDENTIFIER ::= { pktcEnMtaMib 3 }
pktcEnMtaCompliances  OBJECT IDENTIFIER ::= { pktcEnMtaConformance 1 }
pktcEnMtaGroups    OBJECT IDENTIFIER ::= { pktcEnMtaConformance 2 }

-- Enhancement MIB Objects

pktcEnMtaDevMltplGrantsPerInterval OBJECT-TYPE
SYNTAX INTEGER {
   enablemgpifunctionality(1),
   disablemgpifunctionality(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "This object is used to control the Multiple grants functionality on a PacketCable MTA.
   To indicate enabling of this functionality, a value of enablemgpifunctionality(1) is used.
   To indicate disabling of this functionality, a value of disablemgpifunctionality(2) is used."
DEFVAL {disablemgpifunctionality}
 ::= { pktcEnMtaDevBase 1}

-- Compliance statements

pktcEnMtaBasicCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION "The compliance statement for devices that implement MTA feature."
MODULE  --PKTC-EN-MTA-MIB

-- Mandatory groups

MANDATORY-GROUPS {
pktcEnMtaGroup
}
 ::= { pktcEnMtaCompliances 3 }
pktcEnMtaGroup OBJECT-GROUP
OBJECTS {
pktcEnMtaDevMltplGrantsPerInterval
}
STATUS current
DESCRIPTION "Group of Enhanced objects for the PacketCable MTA MIB."
 ::= { pktcEnMtaGroups 1 }
END