

ETSI TS 103 161-18 V1.1.1 (2011-10)



Technical Specification

**Access, Terminals, Transmission and Multiplexing (ATTM);
Integrated Broadband Cable and Television Networks;
IPCablecom 1.5;
Part 18: Media Terminal Adapter Extension MIB**

Reference

DTS/ATTM-003011-18

Keywords

access, broadband, cable, IP, multimedia, PSTN

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2011.
All rights reserved.

DECT™, PLUGTESTS™, UMTS™ and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPP™ and LTE™ are Trade Marks of ETSI registered for the benefit of its Members and
of the 3GPP Organizational Partners.
GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	4
Foreword.....	4
1 Scope	6
2 References	6
2.1 Normative references	6
2.2 Informative references.....	6
3 Definitions and abbreviations.....	6
4 Void.....	6
5 Requirements.....	7
History	9

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://ipr.etsi.org>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Access, Terminals, Transmission and Multiplexing (ATTM).

The present document is part 18 of a multi-part IPCablecom 1.5 deliverable covering the Digital Broadband Cable Access to the Public Telecommunications Network; IP Multimedia Time Critical Services, as identified below:

- Part 1: "Overview";
- Part 2: "Architectural framework for the delivery of time critical services over Cable Television Networks using Cable Modems";
- Part 3: "Audio Codec Requirements for the Provision of Bi-Directional Audio Service over Cable Television Networks using Cable Modems";
- Part 4: "Network Call Signalling Protocol";
- Part 5: "Dynamic Quality of Service for the Provision of Real Time Services over Cable Television Networks using Cable Modems";
- Part 6: "Event Message Specification";
- Part 7: "Media Terminal Adapter (MTA Management Information Base (MIB))";
- Part 8: "Network Call Signalling (NCS) MIB Requirements";
- Part 9: "Security";
- Part 10: "Management Information Base (MIB) Framework";
- Part 11: "Media terminal adapter (MTA) device provisioning";
- Part 12: "Management Event Mechanism";
- Part 13: "Trunking Gateway Control Protocol - MGCP option";
- Part 14: "Embedded MTA Analog Interface and Powering Specification"
- Part 15: "Analog Trunking for PBX Specification";
- Part 16: "Signalling for Call Management Server";
- Part 17: "CMS Subscriber Provisioning Specification";
- Part 18: "Media Terminal Adapter Extension MIB";**
- Part 19: "IPCablecom Audio Server Protocol Specification - MGCP option";
- Part 20: "Management Event MIB Specification";

Part 21: "Signalling Extension MIB Specification".

NOTE 1: Additional parts may be proposed and will be added to the list in future versions.

NOTE 2: The choice of a multi-part format for this deliverable is to facilitate maintenance and future enhancements.

1 Scope

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

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] ANSI/SCTE 23-3 (2010): "DOCSIS 1.1 Part 3: Operations Support System Interface".
- [2] Cable Television Laboratories, Inc. (CL-SP-MIB-CLABDEF- I09-110210): "CableLabs® Definition MIB Specification", November 2, 2010.
- [3] ANSI/SCTE 79-2 (2009): "DOCSIS 2.0 Part 2: Operations Support System Interface".
- [4] ETSI TS 103 161-7: "Access, Terminals, Transmission and Multiplexing (ATTM); Integrated Broadband Cable and Television Networks; IPCablecom 1.5; Part 7: Media Terminal Adapter (MTA) Management Information Base (MIB)".
- [5] ETSI TS 103 161-10: "Access, Terminals, Transmission and Multiplexing (ATTM); Integrated Broadband Cable and Television Networks; IPCablecom 1.5; Part 10: Management Information Base (MIB) Framework".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definitions and abbreviations

Not applicable.

4 Void

5 Requirements

The IPCablecom Extension MTA MIB must be implemented as defined below, using these references: [1], [2], [3], [4], and [5].

```

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"
    ORGANIZATION      "Cable Television Laboratories, Inc"

    CONTACT-INFO
        "Sumanth Channabasappa
        Postal: Cable Television Laboratories, Inc.
        858 Coal Creek Circle
        Louisville, Colorado 80027-9750
        U.S.A.
        Phone: +1 303-661-9100
        Fax: +1 303-661-9199
        E-mail: mibs@cablelabs.com"

    DESCRIPTION
        "This MIB module enhances the basic management objects
        defined for the PacketCable MTA Device device by
        the MIB group pktcMtaMib.

        Acknowledgements:
        Rodney Osborne          -   Arris Interactive
        Eugene Nechamkin        -   BroadCom Corporation
        Satish Kumar            -   Texas Instruments
        Jean-Francois Mule      -   CableLabs
        Venkatesh Sunkad       -   CableLabs

        Copyright 1999-2005 Cable Television Laboratories, Inc.
        All rights reserved."

    REVISION "200501280000Z"
    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),

```

```

        disablempifunctionality(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
        enablempifunctionality(1) is used.
        To indicate disabling of this functionality, a value of
        disablempifunctionality(2) is used."
    DEFVAL {disablempifunctionality}
    ::= { 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

```

History

Document history		
V1.1.1	October 2011	Publication