

**Superseded**  
**PacketCable™ 1.5 Specifications**  
**by a later version of this document**

**Signaling Extension MIB**

**PKT-SP-MIB-EXSIG1.5-I02-050812**

**ISSUED**

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## Document Status Sheet

<b>Document Control Number:</b>	PKT-SP-MIB-EXSIG1.5-I02-050812			
<b>Document Title:</b>	Signaling Extension MIB			
<b>Revision History:</b>	D01 – Released September 30, 2004			
	D02 – Released December 10, 2004			
	I01 – Issued January 28, 2005			
	I02 – Issued August 12, 2005			
<b>Date:</b>	August 12, 2005			
<b>Status:</b>	<i>Work in Progress</i>	<i>Draft</i>	<i>Issued</i>	<i>Closed</i>
<b>Distribution Restrictions:</b>	<i>Author Only</i>	<i>CL/Member</i>	<i>CL/ Member/ Vendor</i>	<i>Public</i>

### Key to Document Status Codes:

<b>Work in Progress</b>	An incomplete document, designed to guide discussion and generate feedback, that may include several alternative requirements for consideration.
<b>Draft</b>	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.
<b>Issued</b>	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.
<b>Closed</b>	A static document, reviewed, tested, validated, and closed to further engineering change requests to the specification through CableLabs.

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# Superseded

## 1 SCOPE

# by a later version of this document

### 1.1 Purpose of the Document

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

### 1.2 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 References

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 MTA Device Provisioning Specification, PKT-SP-PROV1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.
- [2] IETF STD 62, Simple Network Management Protocol Version 3 (SNMPv3), December 2002.
- [3] IETF RFC 2669, Cable Device Management Information Base for DOCSIS compliant Cable Modems and Cable Modem Termination Systems.
- [4] Data-Over-Cable Service Interface Specifications, DOCSIS 1.1, Operations Support System Interface, SP-OSSiv1.1-I07-030730, July 30, 2003, Cable Television Laboratories, Inc.
- [5] IETF STD 5, Internet Protocol, September 1981.
- [6] IETF RFC 2011, SNMPv2 Management Information Base for the Internet Protocol using SMIPv2, November 1996.
- [7] IETF RFC 2863, The Interfaces Group MIB, June 2000.
- [8] eDOCSIS Specification, SP-eDOCSIS-I06-050812, August 12, 2005, Cable Television Laboratories.
- [9] CableLabs Definition MIB Specification, CL-SP-MIB-CLABDEF-I05-050408, April 8, 2005, Cable Television Laboratories, Inc.
- [10] Data-Over-Cable Service Interface Specifications, DOCSIS 2.0, Operations Support System Interface Specification, SP-OSSiv2.0-I09-050812, August 12, 2005, Cable Television Laboratories, Inc.
- [11] PacketCable 1.5 MTA MIB Specification, PKT-SP-MIB-MTA1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.
- [12] PacketCable 1.5 Signaling MIB Specification, PKT-SP-MIB-SIG1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.
- [13] PacketCable 1.5 MIBs Framework, PKT-SP-MIBS1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.
- [14] IETF RFC 2833, RTP Payload for DTMF Digits, Telephony Tones and Signals, May 2000.
- [15] PacketCable 1.5 Audio/Video Codecs Specification, PKT-SP-CODEC1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.
- [16] PacketCable 1.5 Network-Based Call Signaling Protocol Specification, PKT-SP-NCS1.5-I02-050812, August 12, 2005.

### 2.2 Informative References

- [17] Data-Over-Cable Service Interface Specifications, Cable Modem to Customer Premise Equipment Interface Specification, CMCI, DOCSIS SP-CMCI-I10-050408, April 8, 2005, Cable Television Laboratories, Inc.
- [18] IETF RFC 3417, Transport Mappings for the Simple Network Management Protocol (SNMP), December 2002.

- [19] IETF RFC 2579, Textual Conventions for SMIV2, April 1999.
- [20] IETF RFC 3410, Introduction and Applicability Statements for Internet-Standard Management Framework, December 2002.
- [21] IETF RFC 3411, An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks, December 2002.
- [22] IETF RFC 3412, Message Processing and Dispatching for the Simple Network Management Protocol (SNMP), December 2002.
- [23] IETF RFC 2821, Simple Mail Transfer Protocol, April 2001.
- [24] PacketCable 1.5 Dynamic Quality of Service Specification, PKT-SP-DQOS1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.
- [25] IETF RFC 3594, PacketCable Security Ticket Control Sub-Option for the DHCP CableLabs Client Configuration (CCC) Option, September 2003.
- [26] IETF RFC 2782, A DNS RR for specifying the location of services (DNS SRV), February 2000.
- [27] IETF RFC 3584, Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework, August 2003.
- [28] PacketCable 1.5 Management Event MIB Specification, PKT-SP-EVEMIB1.5-I02-050812, August 12, 2005, Cable Television Laboratories, Inc.

## 2.3 Reference Acquisition

CableLabs Specifications:

- Cable Television Laboratories, Inc., 858 Coal Creek Circle, Louisville, CO 80027; Phone 303-661-9100; Fax 303-661-9199; Internet: <http://www.cablelabs.com/>, <http://www.packetcable.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: [www.ietf.org/](http://www.ietf.org/)

### 3 ABBREVIATIONS

There are no abbreviations used in this document.

## 4 REQUIREMENTS

The PacketCable™ Extension Signaling MIB MUST be implemented as defined below.

```

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

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32, BITS FROM SNMPv2-SMI
    ifIndex FROM IF-MIB
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB
    TruthValue
        FROM SNMPv2-TC
    OBJECT-GROUP,
    MODULE-COMPLIANCE
        FROM SNMPv2-CONF
    pktcEnhancements
        FROM CLAB-DEF-MIB
    pktcNcsEndPntConfigEntry
        FROM PKTC-SIG-MIB;

pktcEnSigMib 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 80027-9750
    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 PacketCable Signaling
        protocols by the MIB group pktcSigMib.

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

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    REVISION "200508120000Z"

    DESCRIPTION
        "This revision is being published as part of the PacketCable
        Signaling MIBs enhancements for PacketCable 1.5."
    ::= { pktcEnhancements 2 }

--
-- Enhanced MIB Objects and Divisions.
--
pktcEnSigMibObjects          OBJECT IDENTIFIER

```

```

                ::= { pktcEnSigMib 1 }
pktcEnSigDevConfigObjects OBJECT IDENTIFIER
                ::= { pktcEnSigMibObjects 1 }
pktcEnNcsEndPntConfigObjects OBJECT IDENTIFIER
                ::= { pktcEnSigMibObjects 2 }
pktcEnSigEndPntConfigObjects OBJECT IDENTIFIER
                ::= { pktcEnSigMibObjects 3 }
pktcEnDcsEndPntConfigObjects OBJECT IDENTIFIER
                ::= { pktcEnSigMibObjects 4 }

--
-- Enhanced Notification groups.
--
pktcEnSigNotificationPrefix OBJECT IDENTIFIER
                ::= { pktcEnSigMib 2 }
pktcEnSigNotification OBJECT IDENTIFIER
                ::= { pktcEnSigNotificationPrefix 0 }
pktcEnSigConformance OBJECT IDENTIFIER
                ::= { pktcEnSigMib 3 }
pktcEnSigCompliances OBJECT IDENTIFIER
                ::= { pktcEnSigConformance 1 }
pktcEnSigGroups OBJECT IDENTIFIER
                ::= { pktcEnSigConformance 2 }

pktcEnNcsMinimumDtmfPlayout OBJECT-TYPE
    SYNTAX Unsigned32 (0 | 40..100)
    UNITS "milliseconds"
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This object defines the minimum playout time for
        the DTMF digit when IETF RFC 2833 DTMF Relay is used
        for the egress gateway.
        If the value set via this pktcEnNcsMinimumDtmfPlayout
        object is different from that specified in RFC2833 packet,
        then the MTA MUST use the maximum of the two values.
        For example:
        If the RFC 2833 packet specifies 23ms and if the object
        pktcEnNcsMinimumDtmfPlayout is set to 40ms then
        the egress gateway must use a value of 40ms.
        Similarly if the RFC 2833 packet specifies
        60 ms and if the object pktcEnNcsMinimumDtmfPlayout
        is set to 40ms then the egress gateway must use a
        value of 60 ms."
    REFERENCE
        "PacketCable(tm) Codec Specification"
    DEFVAL {0}
    ::= { pktcEnSigDevConfigObjects 1 }

--
-- The following table enhances the NCS End Point Config Table
-- (pktcNcsEndPntConfigTable) defined in pktSigMib.
--
--
pktcEnNcsEndPntConfigTable OBJECT-TYPE
    SYNTAX SEQUENCE OF PktcEnNcsEndPntConfigEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table augments pktcNcsEndPntConfigTable."
    ::= { pktcEnNcsEndPntConfigObjects 1 }

```

```

pktcEnNcsEndPntConfigEntry  OBJECT-TYPE
    SYNTAX      PktcEnNcsEndPntConfigEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An enhancement to pktcNcEndPntConfigTable - where each
        entry describes endpoint characteristics."
    AUGMENTS { pktcNcsEndPntConfigEntry }
    ::= { pktcEnNcsEndPntConfigTable 1 }

PktcEnNcsEndPntConfigEntry ::=
    SEQUENCE {
        pktcEnNcsEndPntQuarantineState  INTEGER,
        pktcEnNcsEndPntHookState        INTEGER,
        pktcEnNcsEndPntFaxDetection     TruthValue,
        pktcEnNcsEndPntStatusReportCtrl INTEGER
    }

pktcEnNcsEndPntQuarantineState  OBJECT-TYPE
    SYNTAX  INTEGER {
        normal          (1),
        notification    (2),
        lockstep        (3),
        extendedlockstep (4)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object reflects the state of the Endpoint.
        When the endpoint is in notification, lockstep or
        'extended lockstep' states, the E-MTA MUST report
        the values of notification(2), lockstep(3) or extendedlockstep(
        4), respectively. Else, the endpoint MUST report a value of
        normal(1).
        'Extended Lockstep' is defined as the state when the
        E-MTA is in the lockstep state for longer than 2 minutes.
        For more description about the states refer
        to the PacketCable Network Based Call signaling
        specification."
    REFERENCE
        "PacketCable(tm) Network-Based Call Signaling Protocol
        Specification,"
    ::= { pktcEnNcsEndPntConfigEntry 1 }

pktcEnNcsEndPntHookState  OBJECT-TYPE
    SYNTAX  INTEGER {
        onHook          (1),
        onHookPlusNCSActivity (2),
        offHook         (3)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object reflects the 'hook state' and 'NCS Activity'
        of an endpoint.
        'NCS Activity', by definition includes: an active
        timeout signal, active brief signal or existence of
        an NCS connection.
        The onHook(1) state indicates that the endpoint is
        'on hook' and the absence of 'NCS Activity' on that
        endpoint.
        The onHookPlusNCSActivity(2) indicates that the endpoint

```

is 'on hook' and the presence of 'NCS Activity' on that endpoint.

The offHook(3) state indicates that the endpoint is 'off hook'."

REFERENCE

"PacketCable(tm) Network-Based Call Signaling Protocol Specification"

::= { pktcEnNcsEndPntConfigEntry 2 }

pktcEnNcsEndPntFaxDetection OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object is used to configure the distinctive fax calling tone (CNG) detection feature on an MTA endpoint with reference to the analog interface. When set to true, the MTA MUST enable the detection of CNG tones on the specific endpoint. When set to false, the MTA MUST disable the detection of CNG tones on the specific endpoint. If a connection already exists on the endpoint when this MIB Object is modified, then the setting needs to take effect on the next connection."

DEFVAL {false}

::= { pktcEnNcsEndPntConfigEntry 3 }

pktcEnNcsEndPntStatusReportCtrl OBJECT-TYPE

SYNTAX INTEGER {  
     unsupported (1),  
     reportActualStatus (2),  
     reportEndPointAsActive (3)  
 }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object is be used to control the Endpoint Status Reporting, if the feature is supported by the MTA and is configurable. The term 'Endpoint Status Reporting' refers to any information that the MTA may provide to External Systems for use in a particular reporting mechanism (Ex: Home Alarm Systems). The definition of the External Systems and reporting mechanism are beyond the scope of this definition (In the example of Home Alarm Systems, this MIB Object will allow Management Stations to temporarily disable outage reporting on an EndPoint during planned downtime).

If supported, the MTA MUST:

- reflect the actual Endpoint status when the value is set to 'reportActualStatus(2)'
- reflect the EndPoint status as being active when the value is set to 'reportEndPointAsActive(3)', irrespective of the actual status.

If unsupported, the MTA MUST set this value to 'unsupported(1)' and reject any attempt to set this MIB object using SNMP SET to any other value."

::= { pktcEnNcsEndPntConfigEntry 4 }

pktcEnEndPntInfoTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcEnEndPntInfoTableEntry

MAX-ACCESS not-accessible

STATUS current

```

DESCRIPTION
    "This table includes any additional information
    associated with PacketCable EndPoints.
    The number of entries in this table represents the
    number of available PacketCable EndPoints."
 ::= { pktcEnNcsEndPntConfigObjects 2 }

pktcEnEndPntInfoTableEntry OBJECT-TYPE
    SYNTAX      PktcEnEndPntInfoTableEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry in this table MUST be created for each
        PacketCable EndPoint.
        The index needs to be the corresponding index in the ifTable
        for the associated PacketCable EndPoint."
    INDEX { ifIndex }
 ::= { pktcEnEndPntInfoTable 1 }

PktcEnEndPntInfoTableEntry ::=
    SEQUENCE {
        pktcEnEndPntFgnPotSupport    BITS,
        pktcEnEndPntFgnPotDescr     SnmpAdminString,
        pktcEnEndPntClrFgnPotTsts   BITS,
        pktcEnEndPntRunFgnPotTsts   BITS,
        pktcEnEndPntFgnTestValidity BITS,
        pktcEnEndPntFgnTestResults  BITS
    }

pktcEnEndPntFgnPotSupport OBJECT-TYPE
    SYNTAX BITS {
        fgnPotDetection (0),
        hazardousFgnPotDetection (1)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This MIB object indicates the capabilities of the MTA to
        detect various conditions related to the presence of
        foreign potential on an endpoint.
        The MTA MUST set a value of '1' for each bit corresponding
        to a supported functionality and a value of '0' for each
        bit corresponding to an unsupported functionality."
 ::= { pktcEnEndPntInfoTableEntry 1 }

pktcEnEndPntFgnPotDescr OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This MIB object provides information related to the
        various tests for each detection mechanism supported by
        the MTA. While the actual contents are vendor-specific,
        the recommended format is:
        [<Capability>:<Test References>:<Other Info>]...
        Example:
        <fgnPotDetection>:<test XYZ, Reference 'Document'>:<NA>;
        <hazardousFngPotDetection>:<Test ABC, References>:<NA>
        "
 ::= { pktcEnEndPntInfoTableEntry 2 }

pktcEnEndPntClrFgnPotTsts OBJECT-TYPE

```

```

SYNTAX BITS {
    clrFgnPotentialResults (0),
    clrHazardousPotResults (1)
}
MAX-ACCESS      read-write
STATUS          current
DESCRIPTION
    "This MIB object is used to clear the current test
    results of supported conditions indicated by
    'pktcEnEndPntFgnPotSupport'.
    Setting a bit to a value of '1' clears the corresponding
    results in the MIB Object 'pktcEnEndPntFgnTestResults' and
    the validity as indicated by the MIB object
    'pktcEnEndPntFgnTestValidity' for the supported
    conditions only (i.e, the MTA MUST set the corresponding
    bits to a value of '0' in the indicated tables).
    If an SNMP SET attempts to set a bit corresponding to an
    unsupported condition to a value of '1', then the MTA MUST
    reject the entire SNMP SET and report an 'inconsistent
    value' error.
    For all unsupported scenarios, the corresponding bits MUST
    be set to a value of '0'.
    Whenever one or more tests are enabled by the MIB Object
    'pktcEnEndPntRunFgnPotTests', the MTA MUST also reset the
    corresponding bits in this MIB Object to a value of '0'."
 ::= { pktcEnEndPntInfoTableEntry 3}

```

```

pktcEnEndPntRunFgnPotTsts      OBJECT-TYPE
    SYNTAX BITS {
        runFgnPotentialTsts (0),
        runHazardousPotTsts (1)
    }
    MAX-ACCESS      read-write
    STATUS          current
    DESCRIPTION
        "This MIB object is used to initiate one or more test cases
        associated with a supported foreign potential detection.
        Thus, whenever one or more BITS corresponding to supported
        foreign scenario potential detection mechanisms are set to
        a value of '1', the MTA MUST enable those tests.
        Once the tests are executed, the MTA MUST:
        - set the corresponding bit to a value of '0'
        - update the corresponding BITS in the MIB Objects
        'pktcEnEndPntFgnTestValidity' and
        'pktcEnEndPntFgnTestResults'.
        If an SNMP SET attempts to set a bit corresponding to an
        unsupported condition to a value of '1', then the MTA MUST
        reject the entire SNMP SET and report an 'inconsistent
        value' error.
        Whenever a test is being run on an EndPoint the MTA MUST
        set the corresponding 'ifOperStatus' MIB Object to a
        value of 'testing(3)' for the whole duration of the test.
        When the test is completed, the MTA MUST set the
        ifOperStatus to the value corresponding to the current
        state of the line.

        Note: Whenever multiple tests are run, the ordering of the
        tests or the results is vendor dependent and need not
        necessarily follow the ordering of BITS in this MIB
        Object."
    ::= { pktcEnEndPntInfoTableEntry 4}

```

```

pktcEnEndPntFgnTestValidity    OBJECT-TYPE
    SYNTAX BITS {
        fgnPotTstValidity (0),
        hazardousPotTstValidity (1)
    }

```

```

    }
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This MIB object is used to indicate the validity of the
        corresponding test cases that were initiated using the MIB
        Object 'pktcEnEndPntRunFgnPotTests'.
        An MTA MUST:
        - return a value of '1' if the tests were run successfully
          and the results are valid.
        - return a value of '0' if a particular test was not
          initiated or if the tests could not be run successfully
          and hence the results are invalid.
        Note: The MTA MUST set all the BITS to '0' as soon as one
              or more test cases are initiated."
 ::= { pktcEnEndPntInfoTableEntry 5}

pktcEnEndPntFgnTestResults OBJECT-TYPE
    SYNTAX BITS {
        fgnPotentialResults (0),
        hazardousPotResults (1)
    }
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "This MIB object is used to indicate the results of the
        corresponding test cases that were initiated using the MIB
        Object 'pktcEnEndPntRunFgnPotTests'.
        An MTA MUST:
        - set the corresponding bit to a value of '1' if the tests
          indicated the presence of a foreign potential as per the
          associated test case.
        - set the corresponding bit to a value of '0' if the tests
          indicated the absence of a foreign potential as per the
          associated test case.
        Note: The MTA MUST set all the BITS to '0' as soon as one or
              more test cases are initiated."
 ::= { pktcEnEndPntInfoTableEntry 6}

--
-- Compliance statements
--
pktcSigBasicCompliance MODULE-COMPLIANCE
    STATUS          current
    DESCRIPTION
        "The compliance statement for devices that implement
        PacketCable defined Signaling on an MTA."

    MODULE PKTC-EN-SIG-MIB

--
-- Mandatory groups
--
MANDATORY-GROUPS {
    pktcEnSigGroup
}
GROUP pktcEnNcsGroup
DESCRIPTION
    "This group is mandatory for any MTA implementing
    PacketCable signaling."
 ::= { pktcEnSigCompliances 1 }

```

```
--
-- Conformance group for common Signaling.
--
pktcEnSigGroup OBJECT-GROUP
    OBJECTS {
        pktcEnNcsMinimumDtmfPLayout
    }
    STATUS current
    DESCRIPTION
        "Enhanced group of objects for the common portion of the
        PacketCable Signaling MIB."
    ::= { pktcEnSigGroups 1 }

--
-- Conformance group for NCS Signaling.
--
pktcEnNcsGroup OBJECT-GROUP
    OBJECTS {
        pktcEnNcsEndPntQuarantineState,
        pktcEnNcsEndPntHookState,
        pktcEnNcsEndPntFaxDetection,
        pktcEnNcsEndPntStatusReportCtrl,
        pktcEnEndPntFgnPotSupport,
        pktcEnEndPntFgnPotDescr,
        pktcEnEndPntClrFgnPotTsts,
        pktcEnEndPntRunFgnPotTsts,
        pktcEnEndPntFgnTestValidity,
        pktcEnEndPntFgnTestResults
    }
    STATUS current
    DESCRIPTION
        "Enhanced group of objects for the NCS portion of the
        PacketCable Signaling MIB. This is mandatory for
        NCS signaling support."
    ::= { pktcEnSigGroups 2 }

END
```

## Appendix A Acknowledgements

On behalf of CableLabs and its participating member companies, we would like to extend our 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:

Rodney Osborne (Arris Interactive)  
Eugene Nechamkin (Broadcom Corp.)  
Satish Kumar (Texas Instruments)  
Kevin Marez (Motorola, Inc.)

*Jean-Francois Mule, Sumanth Channabasappa, Venkatesh Sunkad (CableLabs, Inc.)*

## Appendix B Revision History

The following ECN has been incorporated into PKT-SP-MIB-EXSIG1.5-I02-050812.

ECN	ECN Date	Summary
MIB-EXSIG1.5-N-05.0278-1	7/11/05	MAX-ACCESS alignment of the MIB Objects 'pkcEnNcsEndPntFaxDetection' and 'pkcEnNcsEndPntStatusReportCtrl'