

Superseded

PacketCable™ Signaling MIB Specification

PKT-SP-MIB-SIG-I02-010323

Interim

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Document Status Sheet

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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.

- Interim** A document which has undergone rigorous Member and vendor review, suitable for use by vendors to design in conformance to and for field testing. For purposes of the "Contribution and License Agreement for Intellectual Property" which grants licenses to the intellectual property contained in the PacketCable Specification, an "Interim Specification" is a "Published" Specification.

- Released** A stable document, reviewed, tested and validated, suitable to enable cross-vendor interoperability.

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1 SCOPE

This specification describes the PacketCable Signaling (SIG) MIB requirements

2 REFERENCES

The following ITU-T Recommendations and other references are cited in this document, which, through reference in this text, constitute provisions of this recommendation. At the time of publication, the editions indicated are valid. All Recommendations and other references are subject to revisions; all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is published regularly.

2.1 NORMATIVE REFERENCE

- [1] "PacketCable MIB Framework," PKT-SP-MIBS-I02-010316, Cable Television Laboratories, Inc., March 16, 2001. <http://www.PacketCable.com/>
- [2] "PacketCable Network-Based Call Signaling Protocol Specification," PKT-SP-EC-MGCP-I02-991201, Cable Television Laboratories, Inc., December 1, 1999, <http://www.PacketCable.com/>
- [3] "PacketCable MTA Device Provisioning Specification," PKT-SP-PROV-I02-010316, Cable Television Laboratories, Inc., March 16, 2001, <http://www.PacketCable.com/>

2.2 INFORMATIVE REFERENCE:

- [4] ITU-T Recommendation J.160 - Architectural framework for the delivery of time critical services over cable television networks using cable modems.

3 ABBREVIATIONS

There are no abbreviations used in this document.

4 REQUIREMENT

The PacketCable™ NCS MIB MUST be implemented as defined below.

```

PKTC-SIG-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
        Integer32,
        BITS
    FROM SNMPv2-SMI
        TEXTUAL-CONVENTION,
        RowStatus,
        DisplayString,
        TruthValue
    FROM SNMPv2-TC
        OBJECT-GROUP,
        MODULE-COMPLIANCE
    FROM SNMPv2-CONF
        SnmpAdminString
    FROM SNMP-FRAMEWORK-MIB
        clabProjPacketCable
    FROM CLAB-DEF-MIB
        ifIndex
    FROM IF-MIB;

pktcSigMib MODULE-IDENTITY
    LAST-UPDATED      "200103230000Z" -- March 23, 2001
    ORGANIZATION      "CableLabs - PacketCable OSS Group"
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DESCRIPTION
    "This MIB module supplies the basic management
    object for the PacketCable Signaling
    protocols. This version of the MIB includes
    common signaling and Network Call Signaling
    (NCS) related signaling objects.

        Acknowledgements:
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        Rick Vetter           Motorola
        Itay Sherman          Texas Instruments
        Klaus Hermanns        Cisco Systems"

 ::= { clabProjPacketCable 2 }

-- Textual Conventions

PktcCodecType ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION "These are the various types of codecs that

```

```

        May be supported."
SYNTAX INTEGER {
    other (1),
    unknown (2),
    g729 (3),
    g729a (4),
    g729e (5),
    g711mu (6),
    g726K32 (7), -- G.726 32 Khz
    g728 (8),
    g711a (9),
    g726K16 (10), -- G.726 16 Khz
    g726K24 (11), -- G.726 24 Khz
    g726K40 (12) -- G.726 40 Khz
}

PktcRingCadence ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION "These are the ring cadence durations that are
        supported. 200ms for each interval. Each interval is
        represented by one bit. 0 is no tone, 1 is tone."
    SYNTAX BITS {
        interval1 (0),
        interval2 (1),
        interval3 (2),
        interval4 (3),
        interval5 (4),
        interval6 (5),
        interval7 (6),
        interval8 (7),
        interval9 (8),
        interval10 (9),
        interval11 (10),
        interval12 (11),
        interval13 (12),
        interval14 (13),
        interval15 (14),
        interval16 (15),
        interval17 (16),
        interval18 (17),
        interval19 (18),
        interval20 (19),
        interval21 (20),
        interval22 (21),
        interval23 (22),
        interval24 (23),
        interval25 (24),
        interval26 (25),
        interval27 (26),
        interval28 (27),
        interval29 (28),
        interval30 (29)
    }

PktcSigType ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION "These are the various types of signaling that
        may be supported.

        ncs - network call signaling a derivation of
        MGCP (Media Gateway Control Protocol)
        version 1.0

```

```

        dcs - distributed call signaling a derivation
              of SIP (Session Initiation Protocol)
              RFC 2543"
SYNTAX INTEGER {
    other(1),
    unknown(2),
    ncs(3),
    dcs(4)
}

pktcSigMibObjects      OBJECT IDENTIFIER ::= { pktcSigMib 1 }
pktcSigDevConfigObjects OBJECT IDENTIFIER ::= { pktcSigMibObjects 1 }
pktcNcsEndPntConfigObjects OBJECT IDENTIFIER ::= { pktcSigMibObjects 2 }
pktcSigEndPntConfigObjects OBJECT IDENTIFIER ::= { pktcSigMibObjects 3 }
pktcDcsEndPntConfigObjects OBJECT IDENTIFIER ::= { pktcSigMibObjects 4 }

--
--           The pktcSigDevCodecTable defines the codecs supported by this
--           Media Terminal Adapter (MTA).  There is one entry for each
--           codecs supported.
--

pktcSigDevCodecTable  OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcSigDevCodecEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table describes the MTA supported codec types."
    ::= { pktcSigDevConfigObjects 1 }

pktcSigDevCodecEntry OBJECT-TYPE
    SYNTAX      PktcSigDevCodecEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of supported codecs types for the MTA."
    INDEX { pktcSigDevCodecIndex }
    ::= { pktcSigDevCodecTable 1 }

PktcSigDevCodecEntry ::= SEQUENCE {
    pktcSigDevCodecIndex  INTEGER,
    pktcSigDevCodecType   PktcCodecType,
    pktcSigDevCodecMax    INTEGER
}

pktcSigDevCodecIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..16383)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index value which uniquely identifies an entry
         in the pktcSigDevCodecTable."
    ::= { pktcSigDevCodecEntry 1 }

pktcSigDevCodecType OBJECT-TYPE
    SYNTAX      PktcCodecType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A codec type supported by this MTA."
    ::= { pktcSigDevCodecEntry 2 }

pktcSigDevCodecMax OBJECT-TYPE

```

```

SYNTAX      INTEGER(1..16383)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The maximum number of simultaneous sessions of the
    specific codec that the MTA can support"
 ::= { pktcSigDevCodecEntry 3 }

--
--   These are the common signaling related definitions that affect the
--   entire MTA device.
--

pktcSigDevEchoCancellation      OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object specifies if the device is capable
        of echo cancellation."
    ::= { pktcSigDevConfigObjects 2 }

pktcSigDevSilenceSuppression OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object specifies if the device is capable of
        silence suppression (Voice Activity Detection)."
    ::= { pktcSigDevConfigObjects 3 }

pktcSigDevConnectionMode      OBJECT-TYPE
    SYNTAX BITS {
        voice(0),
        fax(1),
        modem(2)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object specifies the connection modes that the
        MTA device can support."
    ::= { pktcSigDevConfigObjects 4 }

--
--   In the United States Ring Cadences 0, 6, and 7 are custom
--   ring cadences definable by the user. The following three
--   objects are used for these definitions.
--

pktcSigDevR0Cadence            OBJECT-TYPE
    SYNTAX      PktcRingCadence
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This object specifies ring cadence 0 (a user defined
        field) where each bit (least significant bit)
        represents a duration of 200 milliseconds (6 seconds
        total)."
    ::= { pktcSigDevConfigObjects 5 }

```

```

pktcSigDevR6Cadence OBJECT-TYPE
    SYNTAX      PktcRingCadence
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This object specifies ring cadence 6 (a user defined
        field) where each bit (least significant bit)
        represents a duration of 200 milliseconds (6 seconds
        total)."
```

::= { pktcSigDevConfigObjects 6 }

```

pktcSigDevR7Cadence OBJECT-TYPE
    SYNTAX      PktcRingCadence
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This object specifies ring cadence 7 (a user defined
        field) where each bit (least significant bit)
        represents a duration of 200 milliseconds (6 seconds
        total)."
```

::= { pktcSigDevConfigObjects 7 }

```

pktcSigDefCallSigTos OBJECT-TYPE
    SYNTAX      Integer32 (0..63)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The default value used in the IP header for setting the
        Type of Service (TOS) value for call signalling. "
```

REFERENCE

"Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
Section 3.4.2"

DEFVAL { 0 }

::= { pktcSigDevConfigObjects 8 }

```

pktcSigDefMediaStreamTos OBJECT-TYPE
    SYNTAX      Integer32 (0..63)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        " The default value used in the IP header for setting
        the Type of Service (TOS) value for media stream packets. "
```

REFERENCE

"Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
Section 3.4.2"

DEFVAL { 0 }

::= { pktcSigDevConfigObjects 9 }

```

pktcSigTosFormatSelector OBJECT-TYPE
    SYNTAX      INTEGER {
        ipv4TOSOctet(1),
        dscpCodepoint(2)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        " The format of the default signaling and media
        Type of Service (TOS) values. "
```

::= { pktcSigDevConfigObjects 10 }

--

-- pktcSigCapabilityTable - This table defines the valid signaling

-- types supported by this MTA.

--

```

pktcSigCapabilityTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcSigCapabilityEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " This table describes the signaling types by this MTA."
    ::= { pktcSigDevConfigObjects 11 }

pktcSigCapabilityEntry OBJECT-TYPE
    SYNTAX      PktcSigCapabilityEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " Entries in pktcMtaDevSigCapabilityTable - List of supported
        signaling types, versions and vendor extensions for this MTA.
        Each entry in the list provides for one signaling type and
        version combination. If the device supports multiple versions
        of the same signaling type - it will require mutiple entries."
    INDEX { pktcSignalingIndex }
    ::= { pktcSigCapabilityTable 1 }

PktcSigCapabilityEntry ::= SEQUENCE {
    pktcSignalingIndex      INTEGER,
    pktcSignalingType       PktcSigType,
    pktcSignalingVersion    SnmpAdminString,
    pktcSignalingVendorExtension SnmpAdminString
}

pktcSignalingIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..16383)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " The index value which uniquely identifies
        an entry in the pktcSigCapabilityTable."
    ::= { pktcSigCapabilityEntry 1 }

pktcSignalingType OBJECT-TYPE
    SYNTAX      PktcSigType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " The Type indentifies the type of signaling
        used, this can be NCS, DCS, etc. This value
        has to be associated with a single siganling
        version - reference pktcMtaDevSignalingVersion."
    ::= { pktcSigCapabilityEntry 2 }

pktcSignalingVersion OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " Provides the version of the signaling type -
        reference pktcSignalingType. Exmaples
        would be 1.0 or 2.33 etc."
    ::= { pktcSigCapabilityEntry 3 }

pktcSignalingVendorExtension OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " The vendor extension allows vendors to

```

```

        provide a list of additional capabilities,
        vendors can decide how to encode these
        Extensions, although space separated text is
        suggested."
 ::= { pktcSigCapabilityEntry 4 }

pktcSigDefNcsReceiveUdpPort OBJECT-TYPE
    SYNTAX      INTEGER (1025..65535)
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "This object contains the MTA User Datagram Protocol (UDP)
        receive port that is being used for NCS call signaling. This
        object should only be changed by the configuration file."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-I02-991201 NCS specification"
    DEFVAL { 2427 }
 ::= { pktcSigDevConfigObjects 12 }

--
-- The following Table will provide endpoint configuration
-- information that is common to all signaling Protocols.
-- Currently only the signaling index is present in an effort
-- not to deprecate any MIB objects.
--

pktcSigEndPntConfigTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcSigEndPntConfigEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        " This table describes the packet cable EndPoint slected
        signaling type. The number of entries in this table represents
        the number of provisioned end points.

        For each conceptual row of pktcSigEndPntConfigTable defined,
        an associated row MUST be defined in one on the specific
        signaling tables such as pktcNcsEndPntConfigTable."
 ::= { pktcSigEndPntConfigObjects 1 }

pktcSigEndPntConfigEntry OBJECT-TYPE
    SYNTAX      PktcSigEndPntConfigEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        " Entries in pktcSigEndPntConfigTable - Each entry describes
        what signaling type a particular enpoint uses."
    INDEX { ifIndex }
 ::= { pktcSigEndPntConfigTable 1 }

PktcSigEndPntConfigEntry ::= SEQUENCE {
    pktcSigEndPntCapabilityIndex          INTEGER
}

pktcSigEndPntCapabilityIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..16383)
    MAX-ACCESS   read-create
    STATUS      current
    DESCRIPTION
        " The associated index value in the pktcSigCapablityTable."
 ::= { pktcSigEndPntConfigEntry 1 }

```

```
--
--   The NCS End Point Config Table is used to define attributes that
--   are specific to connection EndPoints.
--
--
```

```
pktcNcsEndPntConfigTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcNcsEndPntConfigEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table describes the packet cable NCS EndPoint
         configuration. The number of entries in this table
         represents the number of provisioned NCS end points."
    ::= { pktcNcsEndPntConfigObjects 1 }
```

```
pktcNcsEndPntConfigEntry OBJECT-TYPE
    SYNTAX      PktcNcsEndPntConfigEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of attributes for a single packet cable endpoint
         interface."
    INDEX { ifIndex }
    ::= { pktcNcsEndPntConfigTable 1 }
```

```
PktcNcsEndPntConfigEntry ::= SEQUENCE {
    pktcNcsEndPntConfigCallAgentId      DisplayString,
    pktcNcsEndPntConfigCallAgentUdpPort  INTEGER,
    pktcNcsEndPntConfigPartialDialTO     INTEGER,
    pktcNcsEndPntConfigCriticalDialTO    INTEGER,
    pktcNcsEndPntConfigBusyToneTO        INTEGER,
    pktcNcsEndPntConfigDialToneTO        INTEGER,
    pktcNcsEndPntConfigMessageWaitingTO  INTEGER,
    pktcNcsEndPntConfigOffHookWarnToneTO INTEGER,
    pktcNcsEndPntConfigRingingTO         INTEGER,
    pktcNcsEndPntConfigRingBackTO        INTEGER,
    pktcNcsEndPntConfigReorderToneTO     INTEGER,
    pktcNcsEndPntConfigStutterDialToneTO INTEGER,
    pktcNcsEndPntConfigTSMMax            INTEGER,
    pktcNcsEndPntConfigMax1              INTEGER,
    pktcNcsEndPntConfigMax2              INTEGER,
    pktcNcsEndPntConfigMax1QEnable        TruthValue,
    pktcNcsEndPntConfigMax2QEnable        TruthValue,
    pktcNcsEndPntConfigMWD               INTEGER,
    pktcNcsEndPntConfigTdinit            INTEGER,
    pktcNcsEndPntConfigTdmin             INTEGER,
    pktcNcsEndPntConfigTdmax             INTEGER,
    pktcNcsEndPntConfigRtoMax            INTEGER,
    pktcNcsEndPntConfigRtoInit           INTEGER,
    pktcNcsEndPntConfigLongDurationKeepAlive INTEGER,
    pktcNcsEndPntConfigThist             INTEGER,
    pktcNcsEndPntConfigStatus            RowStatus,
    pktcNcsEndPntConfigCallWaitingMaxRep  INTEGER,
    pktcNcsEndPntConfigCallWaitingDelay  INTEGER
}
```

```
pktcNcsEndPntConfigCallAgentId OBJECT-TYPE
    SYNTAX      DisplayString(SIZE (0..255))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
```

"This object contains a string indicating the call agent name.
The call agent name can be a fully qualified domain name or
an IP address. Refer to RFC 821 for details. "
 ::= { pktcNcsEndPntConfigEntry 1 }

pktcNcsEndPntConfigCallAgentUdpPort OBJECT-TYPE
SYNTAX INTEGER (1025..65535)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object contains the call agent User Datagram Protocol
(UDP) receive port that is being used for this instance of
call signaling, i.e. the default port on which the call agent
will receive NCS signaling from the gateway."
REFERENCE
"Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
Section 4.2.1.3"
DEFVAL { 2727 }
 ::= { pktcNcsEndPntConfigEntry 2 }

pktcNcsEndPntConfigPartialDialTO OBJECT-TYPE
SYNTAX INTEGER
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object contains maximum value of the partial
dial time out."
REFERENCE
"Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
Appendix A.1"
DEFVAL { 16 }
 ::= { pktcNcsEndPntConfigEntry 3 }

pktcNcsEndPntConfigCriticalDialTO OBJECT-TYPE
SYNTAX INTEGER
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object contains the maximum value of the critical
dial time out."
REFERENCE
"Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
Appendix A.1"
DEFVAL { 4 }
 ::= { pktcNcsEndPntConfigEntry 4 }

pktcNcsEndPntConfigBusyToneTO OBJECT-TYPE
SYNTAX INTEGER
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object contains the timeout value for busy tone."
REFERENCE
"Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
Appendix A.1"
DEFVAL { 30 }
 ::= { pktcNcsEndPntConfigEntry 5 }

pktcNcsEndPntConfigDialToneTO OBJECT-TYPE
SYNTAX INTEGER

```

UNITS          "seconds"
MAX-ACCESS    read-create
STATUS        current
DESCRIPTION   "This object contains the timeout value for dial tone."
REFERENCE     "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
              Appendix A.1"
DEFVAL        { 16 }
 ::= { pktcNcsEndPntConfigEntry 6 }

pktcNcsEndPntConfigMessageWaitingTO  OBJECT-TYPE
SYNTAX      INTEGER
UNITS        "seconds"
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION  "This object contains the timeout value for message
              waiting indicator."
REFERENCE    "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
              Appendix A.1"
DEFVAL      { 16 }
 ::= { pktcNcsEndPntConfigEntry 7 }

pktcNcsEndPntConfigOffHookWarnToneTO  OBJECT-TYPE
SYNTAX      INTEGER
UNITS        "seconds"
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION  "This object contains the timeout value for
              the off hook Warning tone."
REFERENCE    "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
              Appendix A.1"
DEFVAL      { 0 }
 ::= { pktcNcsEndPntConfigEntry 8 }

pktcNcsEndPntConfigRingingTO  OBJECT-TYPE
SYNTAX      INTEGER
UNITS        "seconds"
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION  "This object contains the timeout value for ringing."
REFERENCE    "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
              Appendix A.1"
DEFVAL      { 180 }
 ::= { pktcNcsEndPntConfigEntry 9 }

pktcNcsEndPntConfigRingBackTO  OBJECT-TYPE
SYNTAX      INTEGER
UNITS        "seconds"
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION  "This object contains the timeout value for ring back."
REFERENCE    "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
              Appendix A.1"
DEFVAL      { 180 }

```

```

 ::= { pktcNcsEndPntConfigEntry 10 }

pktcNcsEndPntConfigReorderToneTO OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the timeout value for reorder tone."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
         Appendix A.1"
    DEFVAL     { 30 }
 ::= { pktcNcsEndPntConfigEntry 11 }

pktcNcsEndPntConfigStutterDialToneTO OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the timeout value for stutter dial tone."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
         Appendix A.1"
    DEFVAL     { 16 }
 ::= { pktcNcsEndPntConfigEntry 12 }

pktcNcsEndPntConfigTSMMax OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the max time in seconds since the
         sending of the initial datagram."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
         Section 3.4.2"
    DEFVAL     { 20 }
 ::= { pktcNcsEndPntConfigEntry 13 }

pktcNcsEndPntConfigMax1 OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the suspicious error threshold
         for signaling messages."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
         Section 3.4.2"
    DEFVAL     { 5 }
 ::= { pktcNcsEndPntConfigEntry 14 }

pktcNcsEndPntConfigMax2 OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the disconnect error
         threshold for signaling messages."
    REFERENCE

```

```

        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
        Section 3.4.2"
    DEFVAL { 7 }
    ::= { pktcNcsEndPntConfigEntry 15 }

pktcNcsEndPntConfigMax1QEnable    OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object enables/disables the Max1 Domain Name
        Server (DNS) query operation when Max1 expires."
    DEFVAL { true }
    ::= { pktcNcsEndPntConfigEntry 16 }

pktcNcsEndPntConfigMax2QEnable    OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object enables/disables the Max2 DNS query
        operation when Max2 expires."
    DEFVAL { true }
    ::= { pktcNcsEndPntConfigEntry 17 }

pktcNcsEndPntConfigMWD            OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Maximum Waiting Delay (MWD) contains the maximum
        number of seconds a MTA waits after a restart."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
        Section 3.4.3.4"
    DEFVAL { 600 }
    ::= { pktcNcsEndPntConfigEntry 18 }

pktcNcsEndPntConfigTdinit         OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the initial number of seconds
        a MTA waits after a disconnect."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
        Section 3.4.3.5"
    DEFVAL { 15 }
    ::= { pktcNcsEndPntConfigEntry 19 }

pktcNcsEndPntConfigTdmin          OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the minimum number of seconds a
        MTA waits after a disconnect."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification

```

```

        Section 3.4.3.5"
        DEFVAL { 15 }
        ::= { pktcNcsEndPntConfigEntry 20 }

pktcNcsEndPntConfigTdmax      OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the maximum number of seconds
        a MTA waits after a disconnect."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
        Section 3.4.3.5"
    DEFVAL { 600 }
    ::= { pktcNcsEndPntConfigEntry 21 }

pktcNcsEndPntConfigRtoMax    OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the maximum number of seconds
        for the retransmission timer."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-I01-991201 NCS specification
        Section 5.5.2"
    DEFVAL { 4 }
    ::= { pktcNcsEndPntConfigEntry 22 }

pktcNcsEndPntConfigRtoInit   OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "milliseconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the initial number of seconds
        for the retransmission timer."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-I01-991201 NCS specification
        Section 5.5.2"
    DEFVAL { 200 }
    ::= { pktcNcsEndPntConfigEntry 23 }

pktcNcsEndPntConfigLongDurationKeepAlive OBJECT-TYPE
    SYNTAX      INTEGER
    UNITS       "minutes"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Specifies a timeout value in minutes for sending
        long duration call notification message."
    REFERENCE
        "Refer to PKT-SP-EC-MGCP-D02-990226 NCS
        specification Appendix A.1.1"
    DEFVAL { 60 }
    ::= { pktcNcsEndPntConfigEntry 24 }

pktcNcsEndPntConfigThist OBJECT-TYPE
    SYNTAX      INTEGER

```

```

UNITS      "seconds"
MAX-ACCESS read-create
STATUS     current
DESCRIPTION
    "Timeout period in seconds before no response is declared."
REFERENCE
    "Refer to PKT-SP-EC-MGCP-D02-990226 NCS specification
    Section 3.4.2"
DEFVAL { 30 }
 ::= { pktcNcsEndPntConfigEntry 25 }

pktcNcsEndPntConfigStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the Row Status associated with
        the pktsNcsEndPntTable."
    ::= { pktcNcsEndPntConfigEntry 26 }

pktcNcsEndPntConfigCallWaitingMaxRep OBJECT-TYPE
    SYNTAX      INTEGER (0..10)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the maximum number of repetitions
        of the call waiting tone that the MTA will play from a
        single CMS request. A value of zero (0) can be used if
        the CMS is to control the repetitions of the call
        waiting tone."
    DEFVAL     { 1 }
    ::= { pktcNcsEndPntConfigEntry 27 }

pktcNcsEndPntConfigCallWaitingDelay OBJECT-TYPE
    SYNTAX      INTEGER (1..100)
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the delay between repetitions
        of the call waiting tone that the MTA will play from
        a single CMS request."
    DEFVAL     { 10 }
    ::= { pktcNcsEndPntConfigEntry 28 }

--
-- notification group is for future extension.
--
pktcSigNotification OBJECT IDENTIFIER ::= { pktcSigMib 2 0 }
pktcSigConformance OBJECT IDENTIFIER ::= { pktcSigMib 3 }
pktcSigCompliances OBJECT IDENTIFIER ::= { pktcSigConformance 1 }
pktcSigGroups      OBJECT IDENTIFIER ::= { pktcSigConformance 2 }

-- compliance statements

pktcSigBasicCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for devices that implement Signaling
        on the MTA."

MODULE -- pktcSigMib

```

```

-- unconditionally mandatory groups

MANDATORY-GROUPS {
    pktcSigGroup
}
GROUP pktcNcsGroup
DESCRIPTION
    "This group is mandatory for any MTA implementing NCS signaling"
 ::= { pktcSigCompliances 1 }

-- units of conformance

pktcSigGroup OBJECT-GROUP
    OBJECTS {
        pktcSigDevCodecType,
        pktcSigDevCodecMax,
        pktcSigDevEchoCancellation,
        pktcSigDevSilenceSuppression,
        pktcSigDevConnectionMode,
        pktcSigDevR0Cadence,
        pktcSigDevR6Cadence,
        pktcSigDevR7Cadence,
        pktcSigDefCallSigTos,
        pktcSigDefMediaStreamTos,
        pktcSigTosFormatSelector,
        pktcSignalingType,
        pktcSignalingVersion,
        pktcSignalingVendorExtension,
        pktcSigEndPntCapabilityIndex,
        pktcSigDefNcsReceiveUdpPort
    }
    STATUS current
    DESCRIPTION
        "Group of objects for the common portion of the
        PacketCable Signaling MIB."
    ::= { pktcSigGroups 1 }

pktcNcsGroup OBJECT-GROUP
    OBJECTS {
        pktcNcsEndPntConfigCallAgentId,
        pktcNcsEndPntConfigCallAgentUdpPort,
        pktcNcsEndPntConfigPartialDialTO,
        pktcNcsEndPntConfigCriticalDialTO,
        pktcNcsEndPntConfigBusyToneTO,
        pktcNcsEndPntConfigDialToneTO,
        pktcNcsEndPntConfigMessageWaitingTO,
        pktcNcsEndPntConfigOffHookWarnToneTO,
        pktcNcsEndPntConfigRingingTO,
        pktcNcsEndPntConfigRingBackTO,
        pktcNcsEndPntConfigReorderToneTO,
        pktcNcsEndPntConfigStutterDialToneTO,
        pktcNcsEndPntConfigTSMMax,
        pktcNcsEndPntConfigMax1,
        pktcNcsEndPntConfigMax2,
        pktcNcsEndPntConfigMax1QEnable,
        pktcNcsEndPntConfigMax2QEnable,
        pktcNcsEndPntConfigMWD,
        pktcNcsEndPntConfigTdinit,
        pktcNcsEndPntConfigTdmin,
        pktcNcsEndPntConfigTdmax,
        pktcNcsEndPntConfigRtoMax,
        pktcNcsEndPntConfigRtoInit,
    }

```

```
pktcNcsEndPntConfigLongDurationKeepAlive,  
pktcNcsEndPntConfigThist,  
pktcNcsEndPntConfigStatus,  
pktcNcsEndPntConfigCallWaitingMaxRep,  
pktcNcsEndPntConfigCallWaitingDelay  
}  
STATUS current  
DESCRIPTION  
    "Group of objects for the NCS portion of the  
    PacketCable Signaling MIB. This is mandatory for  
    NCS signaling."  
 ::= { pktcSigGroups 2 }
```

END