

# **PacketCable™ 1.5 Specifications**

## **Signaling MIB**

**PKT-SP-MIB-SIG1.5-I01-050128**

**ISSUED**

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## Document Status Sheet

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### 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.
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## 1 SCOPE

This specification describes the PacketCable Signaling (SIG) MIB requirements.

## 2 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.

### 2.1 Normative References

- [1] PacketCable 1.5 MIB Framework, PKT-SP-MIBS1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.
- [2] PacketCable 1.5 Network-Based Call Signaling Protocol Specification, PKT-SP-NCS1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc
- [3] PacketCable 1.5 MTA Device Provisioning Specification, PKT-SP-PROV1.5-I01-050128, January 28, 2005, Cable Television Laboratories, Inc.

### 2.2 Informative References

- [4] PacketCable 1.5 Architecture Framework Technical Report, PKT-TR-ARCH1.5 -V01-I01-050128, January 28, 2005, Cable Television Laboratories Inc.
- [5] IETF RFC 3261, SIP: Session Initiation Protocol, February 2002.

### 2.3 Reference Acquisition

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

There are no abbreviations used in this document.

## 4 REQUIREMENTS

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

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

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Integer32,
    IpAddress,
    BITS
        FROM SNMPv2-SMI
    TEXTUAL-CONVENTION,
    RowStatus,
    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      "200501280000Z" -- January 28, 2005
    ORGANIZATION      "CableLabs -- PacketCable OSS Group"
    CONTACT-INFO
        "Sumanth Channabasappa
        Postal:  CableLabs, Inc.
                858 Coal Creek Circle
                Louisville, CO 80027-9750
                U.S.A.
        Phone:   +1 303-661-9100
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        E-mail:  mibs@cablelabs.com"

    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:
        Angela Lyda      Arris Interactive
        Sasha Medvinsky  Motorola
        Roy Spitzer      Telogy Networks, Inc.
        Rick Vetter      Motorola
        Itay Sherman     Texas Instruments
        Klaus Hermanns   Cisco Systems
        Eugene Nechamkin  Broadcom Corp.
        Satish Kumar      Texas Instruments
        Copyright 1999-2005 Cable Television Laboratories, Inc.
        All rights reserved."
    REVISION "200501280000Z"
    DESCRIPTION
        "This revision, published as part of the PacketCable
```

```

        1.5 Signaling MIB I01 Specification."
 ::= { clabProjPacketCable 2 }

PktcCodecType      ::= TEXTUAL-CONVENTION
    STATUS          current
    DESCRIPTION
        "Textual Convention defines various types of
        CODECs that MAY be supported. The list of CODECs
        MUST be consistent with the Codec RTP MAP Parameters
        Table in the PacketCable CODEC specification. In-line
        embedded comments below contain the Literal Codec Name
        for each CODEC. The Literal Codec Name corresponds to
        the second column of the Codec RTP MAP Parameters Table.
        The Literal Codec Name Column contains the CODEC name
        that is used in the LCD of the NCS messages CRCX/MDCX,
        and is also used to identify the CODEC in the CMS
        Provisioning Specification. The RTP Map Parameter
        Column of the Codec RTP MAP Parameters Table contains
        the string used in the media attribute line ('a=') of the
        SDP parameters in NCS messages."
    REFERENCE
        "PacketCable CODEC Specification"
    SYNTAX INTEGER {
        other      (1),
        unknown    (2),
        g729       (3), -- G729
        reserved   (4), -- reserved for future use
        g729E      (5), -- G729E
        pcmu       (6), -- PCMU
        g726at32   (7), -- G726-32
        g728       (8), -- G728
        pcma       (9), -- PCMA
        g726at16   (10), -- G726-16
        g726at24   (11), -- G726-24
        g726at40   (12), -- G726-40
        ilbc       (13), -- iLBC
        bv16       (14) -- BV16
    }

PktcRingCadence    ::= TEXTUAL-CONVENTION
    STATUS          current
    DESCRIPTION
        "This object represents a ring cadence in bit string
        format. The ring cadence representation starts with the
        first 1 in the pattern (the leading 0s in the MSB are
        padding and are to be ignored). Each bit
        represents 100ms of tone; 1 is tone, 0 is no tone. 64
        bits MUST be used for cadence representation, LSB 4 bits
        are used for representing repeatable characteristics.
        0000 means repeatable, and 1000 means non repeatable.
        During SNMP SET operations 64 bits MUST be used,
        otherwise MTA MUST reject the value. As an example, the
        hex representation of a ring cadence of 0.5 secs on; 4
        secs off; repeatable would be:0x0001F0000000000000."
    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),
interval31 (30),
interval32 (31),
interval33 (32),
interval34 (33),
interval35 (34),
interval36 (35),
interval37 (36),
interval38 (37),
interval39 (38),
interval40 (39),
interval41 (40),
interval42 (41),
interval43 (42),
interval44 (43),
interval45 (44),
interval46 (45),
interval47 (46),
interval48 (47),
interval49 (48),
interval50 (49),
interval51 (50),
interval52 (51),
interval53 (52),
interval54 (53),
interval55 (54),
interval56 (55),
interval57 (56),
interval58 (57),
interval59 (58),
interval60 (59),
interval61 (60),
interval62 (61),
interval63 (62),
interval64 (63)
}
```



```

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 3261"
    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  Integer32,
    pktcSigDevCodecType   PktcCodecType,
    pktcSigDevCodecMax     Integer32
}

pktcSigDevCodecIndex  OBJECT-TYPE
    SYNTAX      Integer32 (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      Integer32(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      PkctcRingCadence
    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)."
```

```
DEFVAL {{ interval1, interval2, interval3, interval4, interval5,
interval6, interval7, interval8, interval9, interval10,
interval11, interval12, interval13, interval14, interval15,
interval16, interval17, interval18, interval19, interval20}}
-- '11111111111111111111111100000000000000000000000000000000000000'
-- 00000'
```

```
::={ pktcSigDevConfigObjects 5 }
```

[illegible]

```
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)."
```

```
DEFVAL { { interval1, interval2, interval3, interval4,
interval5, interval6, interval7, interval8, interval9,
interval10, interval11, interval12, interval13, interval14,
interval15, interval16, interval17, interval18, interval19,
interval20 } }
```

```
-- '111111111111111111111111100000000000000000000000000000000000'
-- 00000'
```

```
::={ pktcSigDevConfigObjects 7 }
```

```
pktnSigDefCallSigTos    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 NCS specification"      DEFVAL { 0 }
 ::= { pktcSigDevConfigObjects 8 }

pktcSigDefMediaStreamTos  OBJECT-TYPE
    SYNTAX      Integer32 (0..63)
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "This object contains the default value used in the IP
        header for setting the Type of Service (TOS) for media
        stream packets. The MTA MUST NOT update this object with
        the value supplied by the CMS in the NCS messages (if
        present). When the value of this object is updated by
        SNMP, the MTA MUST use the new value as a default starting
        from the new connection. Existing connections are not
        affected by the value's update."
REFERENCE
    "Refer to NCS specification"
    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."
    DEFVAL { ipv4TOSOctet }
 ::= { 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 multiple entries."
    INDEX { pktcSignalingIndex }
 ::= { pktcSigCapabilityTable 1 }

```

```

PktcSigCapabilityEntry ::= SEQUENCE {
    pktcSignalingIndex      Integer32,
    pktcSignalingType       PktcSigType,
    pktcSignalingVersion    SnmpAdminString,
    pktcSignalingVendorExtension SnmpAdminString
}

pktcSignalingIndex      OBJECT-TYPE
    SYNTAX      Integer32 (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 identifies the type of signaling
         used, this can be NCS, DCS, etc. This value
         has to be associated with a single signaling
         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. Examples
         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      Integer32 (1025..65535)
    MAX-ACCESS   read-only
    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 NCS specification"
    DEFVAL { 2427 }
    ::= { pktcSigDevConfigObjects 12 }

```

```

pktcSigServiceClassNameUS    OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE (0..15))
    MAX-ACCESS   read-write
    STATUS       obsolete
    DESCRIPTION
        "This object contains a string indicating the Service
        Class name to create an Upstream Service (US) Flow for
        NCS. If the object has an empty string value then the
        upstream NCS SF is not created and the best effort
        SF is used for upstream NCS data. The creation of the NCS
        SF primary occurs before Voice Communication Service is
        activated on the device. If this object is set to a
        non-empty (non-zero length) string, the MTA MUST create
        the NCS SF if it does not currently exist and the
        pktcSigServiceClassNameMask object has a non-zero value.
        If this object is subsequently set to an empty
        (zero-length)string , the MTA MUST delete the NCS SF
        if it exists. Setting this object to a different value
        does not cause the Upstream Service Flow to be
        re-created. The string MUST contain printable ASCII
        characters. The length of the string does not include a
        terminating zero. The MTA MUST append a terminating zero
        when the MTA creates the service flow. "
    ::= { pktcSigDevConfigObjects 13 }

pktcSigServiceClassNameDS    OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE (0..15))
    MAX-ACCESS   read-write
    STATUS       obsolete
    DESCRIPTION
        "This object contains a string indicating the Service
        Class Name to create a Downstream Service Flow for NCS.
        If the object has an empty string value then the
        NCS SF is not created and the best effort primary SF is
        used for downstream NCS data. The creation of the NCS SF
        occurs before Voice Communication Service is activated on
        the device. If this object is set to a non-empty (non-zero
        length) string, the MTA MUST create the NCS SF if it does
        not currently exist and the pktcSigServiceClassNameMask
        object has a non-zero value. If this object is
        subsequently set to an empty (zero-length) string, the MTA
        MUST delete the NCS SF if it exists. Setting this object
        to a different value does not cause the Downstream Service
        Flow to be re-created. The string MUST contain printable
        ASCII characters. The length of the string does not include
        a terminating zero. The MTA MUST append a terminating
        zero when the MTA creates the service flow. "
    ::= { pktcSigDevConfigObjects 14 }

pktcSigServiceClassNameMask   OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-write
    STATUS       obsolete
    DESCRIPTION
        "This object contains a value for the Call Signaling
        Network Mask. The value is used as the NCS Call Signaling
        classifier mask. The object is used to delete the NCS SF
        when set to zero. When the object is set to a non-zero
        value by the SNMP Manager, the NCS SF are to be created."
    DEFVAL { 0 }
    ::= { pktcSigDevConfigObjects 15 }

```

```

pktcSigNcsServiceFlowState OBJECT-TYPE
    SYNTAX      INTEGER {
        notactive (1),
        active    (2),
        error      (3)
    }
    MAX-ACCESS   read-only
    STATUS        obsolete
    DESCRIPTION
        "This object contains a status value of the Call Signaling
        Service Flow.
        - 'notactive' indicates that the NCS SF is not being used,
        and has not tried to be created,
        - 'active' indicates that the NCS SF is in use,
        - 'error' indicates that the NCS SF creation resulted in
        an error and the best effort channel is used for NCS
        Signaling."
    ::= { pktcSigDevConfigObjects 16 }

```

```
pktcSigDevRlCadence          OBJECT-TYPE
    SYNTAX      PktcRingCadence
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "This object specifies ring cadence 1 (a user defined
         field) where each bit (least significant bit)
         represents a duration of 100 milliseconds (6 seconds
         total)."
```

```
DEFVAL { { interval1, interval2, interval3, interval4,
interval5, interval6, interval7, interval8, interval9,
interval10, interval11, interval12, interval13, interval14,
interval15, interval16, interval17, interval18, interval19,
interval20 } }
```

```
-- '111111111111111111111111100000000000000000000000000000000000000000000000'
-- 00000'
```

```
::={ pktcSigDevConfigObjects 17 }
```

```
pktcSigDevR2Cadence          OBJECT-TYPE
    SYNTAX      PkctlRingCadence
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "This object specifies ring cadence 2 (a user
         defined field) where each bit (least significant
         bit) represents a duration of 100 milliseconds
         (6 seconds total)."
```

```
DEFVAL { { interval1, interval2, interval3, interval4,
interval5, interval6, interval7, interval8, interval13,
interval14, interval15, interval16, interval17, interval18,
interval19, interval20 } }
-- '1111111100001111111100000000000000000000000000000000'
-- 0000'
```

```
::={ pkctlSigDevConfigObjects 18 }
```

```

pktcSigDevR3Cadence      OBJECT-TYPE
    SYNTAX      PktcRingCadence
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "This object specifies ring cadence 3 (a user
        defined field) where each bit (least significant

```

```

        bit) represents a duration of 100 milliseconds
        (6 seconds total)."
```

DEFVAL { { interval1, interval2, interval3, interval4,  
interval7, interval8, interval9, interval10, interval13,  
interval14, interval15, interval16, interval17, interval18,  
interval19, interval20 } }

```
-- '1111001111001111111110000000000000000000000000000000000000000000'
-- 00000'
```

```
::= { pktcSigDevConfigObjects 19 }
```

**pktcSigDevR4Cadence** OBJECT-TYPE

```
SYNTAX      PktcRingCadence
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION
    "This object specifies ring cadence 4 (a user
    defined field) where each bit (least significant
    bit) represents a duration of 100 milliseconds
    (6 seconds total)."
```

DEFVAL { { interval1, interval2, interval3, interval6,  
interval7, interval8, interval9, interval10, interval11,  
interval12, interval13, interval14, interval15, interval18,  
interval19, interval20 } }

```
-- '1110011111111110011100000000000000000000000000000000000000000000'
-- 00000'
```

```
::= { pktcSigDevConfigObjects 20 }
```

**pktcSigDevR5Cadence** OBJECT-TYPE

```
SYNTAX      PktcRingCadence
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION
    "This object specifies ring cadence 5 (a user
    defined field) where each bit (least significant
    bit) represents a duration of 100 milliseconds."
```

DEFVAL { { interval1, interval2, interval3, interval4,  
interval5, interval6 } }

```
-- '1111100000000000000000000000000000000000000000000000000000000000'
-- 01000'
```

```
::= { pktcSigDevConfigObjects 21 }
```

**pktcSigDevRgCadence** OBJECT-TYPE

```
SYNTAX      PktcRingCadence
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION
    "This object specifies ring cadence rg (a user
    defined field) where each bit (least significant
    bit) represents a duration of 100 milliseconds
    (6 seconds total)."
```

DEFVAL { { interval1, interval2, interval3, interval4,  
interval5, interval6, interval7, interval8, interval9,  
interval10, interval11, interval12, interval13, interval14,  
interval15, interval16, interval17, interval18, interval19,  
interval20 } }

```
-- '1111111111111111111110000000000000000000000000000000000000000000'
-- 00000'
```

```
::= { pktcSigDevConfigObjects 22 }
```

**pktcSigDevRsCadence** OBJECT-TYPE

```
SYNTAX      PktcRingCadence
MAX-ACCESS   read-write
```



```

STATUS          current
DESCRIPTION
    "This object specifies ring cadence rs (a user
    defined field) where each bit (least significant bit)
    represents a duration of 100 milliseconds (6 seconds
    total). MTA MUST reject any attempt to make this
    object repeatable."
DEFVAL { { interval1, interval2, interval3, interval4,
interval5, interval6 } }
-- '1111100000000000000000000000000000000000000000000000000000000000'
-- 01000'
::= { pktcSigDevConfigObjects 23 }

pktcSigDevRtCadence      OBJECT-TYPE
SYNTAX      PkctcRingCadence
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION
    "This object specifies ring cadence rt (a user
    defined field) where each bit (least significant
    bit) represents a duration of 100 milliseconds
    (6 seconds total)."
DEFVAL { { interval1, interval2, interval3, interval4,
interval5, interval6, interval7, interval8, interval9,
interval10, interval11, interval12, interval13, interval14,
interval15, interval16, interval17, interval18, interval19,
interval20 } }
-- '1111111111111111111111111111111111111111111111111111111111111111'
-- 00000'
::= { pktcSigDevConfigObjects 24 }

--
-- 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 PkctcSigEndPntConfigEntry
MAX-ACCESS   not-accessible
STATUS       current
DESCRIPTION
    "This table describes the PacketCable EndPoint selected
    signaling type. The number of entries in this table
    represents the number of provisioned endpoints.
    For each conceptual row of pktcSigEndPntConfigTable
    defined, an associated row MUST be defined in one of
    the specific signaling tables such as
    pktcNcsEndPntConfigTable."
::= { pktcSigEndPntConfigObjects 1 }

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

```

```

PktcSigEndPntConfigEntry ::= SEQUENCE {
    pktcSigEndPntCapabilityIndex      Integer32
}

pktcSigEndPntCapabilityIndex OBJECT-TYPE
    SYNTAX      Integer32 (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 PacketCable EndPoint selected
        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 of
        the specific signaling tables such as
        pktcNcsEndPntConfigTable."
    ::= { pktcNcsEndPntConfigObjects 1 }

pktcNcsEndPntConfigEntry OBJECT-TYPE
    SYNTAX      PktcNcsEndPntConfigEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "Entries in pktcNcsEndPntConfigTable - Each entry
        describes what signaling type a particular endpoint uses."
    INDEX { ifIndex }
    ::= { pktcNcsEndPntConfigTable 1 }

```

```

PktcNcsEndPntConfigEntry ::= SEQUENCE {
    pktcNcsEndPntConfigCallAgentId      SnmpAdminString,
    pktcNcsEndPntConfigCallAgentUdpPort Integer32,
    pktcNcsEndPntConfigPartialDialTO    Integer32,
    pktcNcsEndPntConfigCriticalDialTO   Integer32,
    pktcNcsEndPntConfigBusyToneTO       Integer32,
    pktcNcsEndPntConfigDialToneTO       Integer32,
    pktcNcsEndPntConfigMessageWaitingTO Integer32,
    pktcNcsEndPntConfigOffHookWarnToneTO Integer32,
    pktcNcsEndPntConfigRingingTO        Integer32,
    pktcNcsEndPntConfigRingBackTO       Integer32,
    pktcNcsEndPntConfigReorderToneTO    Integer32,
    pktcNcsEndPntConfigStutterDialToneTO Integer32,
    pktcNcsEndPntConfigTSMax            Integer32,
    pktcNcsEndPntConfigMax1             Integer32,
    pktcNcsEndPntConfigMax2            Integer32,
    pktcNcsEndPntConfigMax1QEnable      TruthValue,
    pktcNcsEndPntConfigMax2QEnable      TruthValue,
    pktcNcsEndPntConfigMWD             Integer32,
    pktcNcsEndPntConfigTdinit          Integer32,
    pktcNcsEndPntConfigTdmin           Integer32,
    pktcNcsEndPntConfigTdmax           Integer32,
    pktcNcsEndPntConfigRtoMax           Integer32,
    pktcNcsEndPntConfigRtoInit          Integer32,
    pktcNcsEndPntConfigLongDurationKeepAlive Integer32,
    pktcNcsEndPntConfigThist           Integer32,
    pktcNcsEndPntConfigStatus           RowStatus,
    pktcNcsEndPntConfigCallWaitingMaxRep Integer32,
    pktcNcsEndPntConfigCallWaitingDelay Integer32,
    pktcNcsEndPntStatusCallIpAddress   IpAddress,
    pktcNcsEndPntStatusError            INTEGER
}

pktcNcsEndPntConfigCallAgentId OBJECT-TYPE
    SYNTAX      SnmpAdminString(SIZE (3..255))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains a string indicating the call agent
        name(e.g.: ca@abc.def.com). The call agent name
        after the character '@', MUST be a fully qualified
        domain name and MUST have a corresponding
        pktcMtaDevCmsFqdn entry in the pktcMtaDevCmsTable. For
        each particular end-point, the MTA MUST use the current
        value of this object to communicate with the corresponding
        CMS. The MTA MUST update this object with the value of the
        'Notified Entity' parameter of the NCS message. If the
        Notified Entity parameter does not contain a CallAgent
        port, the MTA MUST update this object with default value
        of 2727. Because of the high importance of this object to
        the ability of the MTA to maintain reliable NCS
        communication with the CMS, it is highly recommended not
        to change this object's value through management station
        during normal operations."

    ::= { pktcNcsEndPntConfigEntry 1 }

pktcNcsEndPntConfigCallAgentUdpPort OBJECT-TYPE
    SYNTAX      Integer32 (1025..65535)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the current value of the User

```

Datagram Protocol (UDP) receive port on which the call agent will receive NCS signaling from the endpoint. For each particular end-point, the MTA MUST use the current value of this object to communicate with the corresponding CMS. The MTA MUST update this object with the value of the 'Notified Entity' parameter of the NCS message. If the Notified Entity parameter does not contain a CallAgent port, the MTA MUST update this object with default value of 2727. Because of the high importance of this object to the ability of the MTA to maintain reliable NCS communication with the CMS, it is highly recommended not to change this object's value through management station during normal operations."

## REFERENCE

"Refer to NCS specification"

DEFVAL { 2727 }

::= { pktnCsEndPntConfigEntry 2 }

pktnCsEndPntConfigPartialDialTO OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This object contains maximum value of the partial dial time out."

## REFERENCE

"Refer to PacketCable NCS specification"

DEFVAL { 16 }

::= { pktnCsEndPntConfigEntry 3 }

pktnCsEndPntConfigCriticalDialTO OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This object contains the maximum value of the critical dial time out."

## REFERENCE

"Refer NCS specification"

DEFVAL { 4 }

::= { pktnCsEndPntConfigEntry 4 }

pktnCsEndPntConfigBusyToneTO OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This object contains the default timeout value for busy tone. The MTA MUST NOT update this object with the value provided in the NCS Message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message."

## REFERENCE

"Refer to NCS specification"

DEFVAL { 30 }

::= { pktnCsEndPntConfigEntry 5 }

```

pktcNcsEndPntConfigDialToneTO      OBJECT-TYPE
    SYNTAX      Integer32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
        "This object contains the default timeout value for dial
        tone. The MTA MUST NOT update this object with
        the value provided in the NCS Message (if present).
        If the value of the object is modified by the
        SNMP Management Station, the MTA MUST use the new value
        as a default only for a new signal requested by the NCS
        message."
    REFERENCE
        "Refer to NCS specification "
    DEFVAL       { 16 }
    ::= { pktcNcsEndPntConfigEntry 6 }

pktcNcsEndPntConfigMessageWaitingTO  OBJECT-TYPE
    SYNTAX      Integer32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
        "This object contains the default timeout value for
        message waiting indicator The MTA MUST NOT
        update this object with the value provided in the NCS
        Message (if present). If the value of the object
        is modified by the SNMP Management Station, the MTA MUST
        use the new value as a default only for a new signal
        requested by the NCS message."
    REFERENCE
        "Refer to NCS specification"
    DEFVAL       { 16 }
    ::= { pktcNcsEndPntConfigEntry 7 }

pktcNcsEndPntConfigOffHookWarnToneTO  OBJECT-TYPE
    SYNTAX      Integer32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
        "This object contains the default timeout value for the
        off hook Warning tone. The MTA MUST NOT update
        this object with the value provided in the NCS Message (if
        present). If the value of the object is modified
        by the SNMP Management Station, the MTA MUST use the new
        value as a default only for a new signal requested by the
        NCS message. "
    REFERENCE
        "Refer to NCS specification"
    DEFVAL       { 0 }
    ::= { pktcNcsEndPntConfigEntry 8 }

pktcNcsEndPntConfigRingingTO          OBJECT-TYPE
    SYNTAX      Integer32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
        "This object contains the default timeout value for
        ringing. The MTA MUST NOT update this object with
        the value provided in the NCS Message (if present)."

```

If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message."

## REFERENCE

"Refer to NCS specification"

DEFVAL { 180 }

::= { pktcNcsEndPntConfigEntry 9 }

pktcNcsEndPntConfigRingBackTO OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This object contains the default timeout value for ring back. The MTA MUST NOT update this object with the value provided in the NCS Message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message."

## REFERENCE

"Refer to NCS specification"

DEFVAL { 180 }

::= { pktcNcsEndPntConfigEntry 10 }

pktcNcsEndPntConfigReorderToneTO OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This object contains the default timeout value for reorder tone. The MTA MUST NOT update this object with the value provided in the NCS Message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message."

## REFERENCE

"Refer to NCS specification"

DEFVAL { 30 }

::= { pktcNcsEndPntConfigEntry 11 }

pktcNcsEndPntConfigStutterDialToneTO OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This object contains the default timeout value for stutter dial tone. The MTA MUST NOT update this object with the value provided in the NCS Message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message."

## REFERENCE

"Refer to NCS specification"

DEFVAL { 16 }

::= { pktcNcsEndPntConfigEntry 12 }

```
pktcNcsEndPntConfigTSMMax      OBJECT-TYPE
    SYNTAX      Integer32
    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 NCS specification"
    DEFVAL { 20 }
    ::= { pktcNcsEndPntConfigEntry 13 }
```

```
pktcNcsEndPntConfigMax1      OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-create
    STATUS      current
    DESCRIPTION
        "This object contains the suspicious error threshold
        for signaling messages."
    REFERENCE
        "Refer to NCS specification"
    DEFVAL { 5 }
    ::= { pktcNcsEndPntConfigEntry 14 }
```

```
pktcNcsEndPntConfigMax2      OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-create
    STATUS      current
    DESCRIPTION
        "This object contains the disconnect error
        threshold for signaling messages."
    REFERENCE
        "Refer to NCS specification"
    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      Integer32
    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 NCS specification"

DEFVAL { 600 }

::= { pktcNcsEndPntConfigEntry 18 }

pktcNcsEndPntConfigTdinit OBJECT-TYPE

SYNTAX Integer32

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 NCS specification"

DEFVAL { 15 }

::= { pktcNcsEndPntConfigEntry 19 }

pktcNcsEndPntConfigTdmin OBJECT-TYPE

SYNTAX Integer32

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 NCS specification"

DEFVAL { 15 }

::= { pktcNcsEndPntConfigEntry 20 }

pktcNcsEndPntConfigTdmax OBJECT-TYPE

SYNTAX Integer32

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 NCS specification"

DEFVAL { 600 }

::= { pktcNcsEndPntConfigEntry 21 }

pktcNcsEndPntConfigRtoMax OBJECT-TYPE

SYNTAX Integer32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the maximum number of seconds for the retransmission timer."

REFERENCE

"Refer to NCS specification"

DEFVAL { 4 }

::= { pktcNcsEndPntConfigEntry 22 }

pktcNcsEndPntConfigRtoInit OBJECT-TYPE

SYNTAX Integer32



```

        UNITS          "milliseconds"
        MAX-ACCESS     read-create
        STATUS         current
        DESCRIPTION
            "This object contains the initial number of seconds
             for the retransmission timer."
        REFERENCE
            "Refer to NCS specification"
        DEFVAL { 200 }
        ::= { pktcNcsEndPntConfigEntry 23 }

pktcNcsEndPntConfigLongDurationKeepAlive    OBJECT-TYPE
    SYNTAX      Integer32
    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 NCS specification"
    DEFVAL { 60 }
    ::= { pktcNcsEndPntConfigEntry 24 }

pktcNcsEndPntConfigThist    OBJECT-TYPE
    SYNTAX      Integer32
    UNITS       "seconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Timeout period in seconds before no response is
         declared."
    REFERENCE
        "Refer to NCS specification"
    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 pktcNcsEndPntConfigTable."
    ::= { pktcNcsEndPntConfigEntry 26 }

pktcNcsEndPntConfigCallWaitingMaxRep    OBJECT-TYPE
    SYNTAX      Integer32 (0..10)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object contains the default value of the maximum
         number of repetitions of the call waiting tone that the
         MTA will play from a single CMS request. The MTA
         MUST NOT update this object with the information provided
         in the NCS Message (if present). If the value of
         the object is modified by the SNMP Management Station,
         the MTA MUST use the new value as a default only for a new
         signal requested by the NCS message."
    DEFVAL      { 1 }
    ::= { pktcNcsEndPntConfigEntry 27 }

pktcNcsEndPntConfigCallWaitingDelay    OBJECT-TYPE

```

```

SYNTAX      Integer32 (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 }

pktcNcsEndPntStatusCallIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object contains the IP address of the CMS
    currently being used for this endpoint. This IP
    address is used to create the appropriate security
    association."
 ::= { pktcNcsEndPntConfigEntry 29 }

pktcNcsEndPntStatusError OBJECT-TYPE
SYNTAX INTEGER {
    operational             (1),
    noSecurityAssociation   (2),
    disconnected             (3)
}
MAX-ACCESS   read-only
STATUS      current
DESCRIPTION
    "This object contains the error status for this interface.
    The operational state indicates that all operations
    necessary to put the line in service have occurred and CMS
    has acknowledged the RSIP message successfully.
    If 'pktcMtaDevCmsIpsecCtrl' is enabled for the associated
    Call Agent, the noSecurityAssociation status indicates
    that no Security Association (SA) yet exists for this
    endpoint. Otherwise, the state is unused.
    The disconnected status indicates one of the following two:
    1. If 'pktcMtaDevCmsIpsecCtrl' is disabled then no
    security association is involved with this endpoint: the
    NCS signaling Software is in process of establishing the
    NCS signaling Link via an RSIP exchange.
    2. Otherwise, pktcMtaDevCmsIpsecCtrl is enabled, the
    security Association has been established and the NCS
    signaling Software is in process of establishing the NCS
    signaling Link via an RSIP exchange."

 ::= { pktcNcsEndPntConfigEntry 30 }

--
-- notification group is for future extension.
--
pktcSigNotificationPrefix OBJECT IDENTIFIER ::= { pktcSigMib 2 }
pktcSigNotification OBJECT IDENTIFIER ::= {
    pktcSigNotificationPrefix 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,
        pktcSigalingType,
        pktcSigalingVersion,
        pktcSigalingVendorExtension,
        pktcSigEndPntCapabilityIndex,
        pktcSigDefNcsReceiveUdpPort,
        pktcSigDevR1Cadence,
        pktcSigDevR2Cadence,
        pktcSigDevR3Cadence,
        pktcSigDevR4Cadence,
        pktcSigDevR5Cadence,
        pktcSigDevRgCadence,
        pktcSigDevRsCadence,
        pktcSigDevRtCadence
    }
    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,
        pktcNcsEndPntStatusCallIpAddress,
        pktcNcsEndPntStatusError
    }
    STATUS current
    DESCRIPTION
        "Group of objects for the NCS portion of the
        PacketCable Signaling MIB. This is mandatory for
        NCS signaling."
    ::= { pktcSigGroups 2 }

pktcSigObsoleteGroup OBJECT-GROUP
    OBJECTS {
        pktcSigServiceClassNameUS,
        pktcSigServiceClassNameDS,
        pktcSigServiceClassNameMask,
        pktcSigNcsServiceFlowState
    }
    STATUS obsolete
    DESCRIPTION
        " Collection of obsolete objects for PacketCable
        Signaling MIB."
    ::= { pktcSigGroups 3}

END

```

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