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Data Standards Subcommittee

AMERICAN NATIONAL STANDARD

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**IPCablecom 1.0 Part 8: Signaling Management
Information Base (MIB) Requirements**

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Table of Contents

1	SCOPE	7
2	REFERENCES	7
2.1	NORMATIVE REFERENCES	7
2.2	INFORMATIVE REFERENCES	7
3	TERMS.....	7
4	ABBREVIATIONS AND ACRONYMS	7
5	REQUIREMENTS.....	8

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1 SCOPE

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

2 REFERENCES

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

2.1 Normative References

All references are subject to revision, and users of this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

- [1] ANSI/SCTE 24-06 2016, IPCablecom 1.0 Part 6: Management Information Base (MIB) Network.
- [2] ANSI/SCTE 24-03 2016, IPCablecom 1.0 Part 3: Network Call Signaling Protocol for the Delivery of Time-Critical Services over Cable Television Using Data Modems.
- [3] ANSI/SCTE 24-05 2016, IPCablecom 1.0 Part 5: Media Terminal Adapter (MTA) Device Provisioning Requirements for the Delivery of Real-Time Services over Cable Television Using Cable Modems.

2.2 Informative References

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

- [1] ANSI/SCTE 24-01 2016, IPCablecom 1.0 Part 1: Architecture Framework for the Delivery of Time-Critical Services over Cable Television Networks Using Cable Modems.
- [2] IETF RFC 3261, SIP: Session Initiation Protocol, February 2002.

3 TERMS

This standard uses the following term:

Management Information Base (MIB) The specification of information in a manner that allows standard access through a network management protocol.

4 ABBREVIATIONS AND ACRONYMS

The following abbreviations are used in this standard:

MIB Management Information Base
MTA Media Terminal Adapter

5 REQUIREMENTS

The IPcablecom 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      "200711290000Z" -- November 29, 2007
    ORGANIZATION      "CableLabs -- PacketCable OSS Group"
    CONTACT-INFO
        "Sumanth Channabasappa
        Postal: CableLabs, Inc.
             858 Coal Creek Circle
             Louisville, CO 80027-1266
             U.S.A.
        Phone: +1 303-661-9100
        Fax:   +1 303-661-9199
        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 1999-2007 Cable Television Laboratories, Inc.
    All rights reserved."
    REVISION "200711290000Z"
    DESCRIPTION
        "This revision, published as part of the PacketCable
        Signaling MIB Standard."
    ::= { 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
}

```

```

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:0x0001F00000000000."
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      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)."  
DEFVAL {{ interval1, interval2, interval3, interval4, interval5,  
interval6, interval7, interval8, interval9, interval10,  
interval11, interval12, interval13, interval14, interval15,  
interval16, interval17, interval18, interval19, interval20}}  
-- '111111111111111111111111100000000000000000000000000000000000000000000000'  
-- 00000'  
::= { 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)."  
DEFVAL { { interval1, interval2, interval3, interval4,  
interval5, interval6, interval7, interval8, interval9,  
interval10, interval11, interval12, interval13, interval14,  
interval15, interval16, interval17, interval18, interval19,  
interval20 } }  
-- '111111111111111111111111100000000000000000000000000000000000000000000000'  
-- 00000'  
::= { 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)."  
DEFVAL { { interval1, interval2, interval3, interval4,  
interval5, interval6, interval7, interval8, interval9,  
interval10, interval11, interval12, interval13, interval14,  
interval15, interval16, interval17, interval18, interval19,  
interval20 } }  
-- '111111111111111111111111100000000000000000000000000000000000000000000000'  
-- 00000'  
::= { 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 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 }

pktcSigDevR1Cadence          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 } }
-- '1111111111111111111111111000000000000000000000000000000000000000
-- 00000'
 ::= { pktcSigDevConfigObjects 17 }

pktcSigDevR2Cadence          OBJECT-TYPE
SYNTAX                      PktcRingCadence
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 } }
-- '1111111100001111111111000000000000000000000000000000000000000000
-- 00000'
 ::= { pktcSigDevConfigObjects 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 } }
-- '1111001111001111111111110000000000000000000000000000000000000000
-- 00000'

```

```
-- 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 } }  
-- '1110011111111111001110000000000000000000000000000000000000000000000000'  
-- 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, interval61 } }  
-- '1111100000000000000000000000000000000000000000000000000000000000000000'  
-- 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 } }  
-- '1111111111111111111111111000000000000000000000000000000000000000000000'  
-- 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, interval61 } }
    -- '1111100000000000000000000000000000000000000000000000000000000000'
    -- 01000'
 ::= { pktcSigDevConfigObjects 23 }

pktcSigDevRtCadence      OBJECT-TYPE
    SYNTAX                PktcRingCadence
    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)."

```

```

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. 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 }
 ::= { pktcNcsEndPntConfigEntry 2 }

pktcNcsEndPntConfigPartialDialTO       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 }
 ::= { pktcNcsEndPntConfigEntry 3 }

```

```
pktcNcsEndPntConfigCriticalDialTO      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 }
    ::= { pktcNcsEndPntConfigEntry 4 }

pktcNcsEndPntConfigBusyToneTO          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 }
    ::= { pktcNcsEndPntConfigEntry 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 }

pktcNcsEndPntConfigTSMaX      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,
    pktcSignalingType,
    pktcSignalingVersion,
    pktcSignalingVendorExtension,
    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 }

```

```
pkcSigObsoleteGroup OBJECT-GROUP
  OBJECTS {
    pkcSigServiceClassNameUS,
    pkcSigServiceClassNameDS,
    pkcSigServiceClassNameMask,
    pkcSigNcsServiceFlowState
  }
  STATUS obsolete
  DESCRIPTION
    " Collection of obsolete objects for PacketCable
    Signaling MIB."
  ::= { pkcSigGroups 3}
END
```
