

# **CableHome PSDEV MIB Specification**

**CH-SP-MIB-PSDEV-C01-060728**

**Closed**

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## Document Status Sheet

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### Key to Document Status Codes:

- Work in Progress**     An incomplete document, designed to guide discussion and generate feedback, which may include several alternative requirements for consideration.
- Draft**                     A document in specification format considered largely complete, but lacking review by Members and vendors. Drafts are susceptible to substantial change during the review process.
- Issued**                     A stable document, which has undergone rigorous member and vendor review and is suitable for product design and development, cross-vendor interoperability, and for certification testing.
- Closed**                     A static document, reviewed, tested, validated, and closed to further engineering change requests to the specification through CableLabs.

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# 1 SCOPE

This specification describes CableHome Portal Services Device (PSDev) MIB requirement.

## 2 REFERENCES

### 2.1 Normative References

In order to claim compliance with this specification, it is necessary to conform to the following standards and other works as indicated, in addition to the other requirements of this specification. Notwithstanding, intellectual property rights may be required to use or implement such normative references.

- [1] CableHome 1.0 Specification, CH-SP-CH1.0-C01-060728, July 28, 2006.
- [2] CableHome 1.1 Specification, CH-SP-CH1.1-C01-060728, July 28, 2006.
- [3] CableLabs® Definition MIB Specification, CL-SP-MIB-CLABDEF-I05-050408, April 8, 2005.

### 2.2 Reference Acquisition

CableLabs Specifications:

- Cable Television Laboratories, Inc. <http://www.cablelabs.com/>

## 3 ACRONYMS

This specification uses the following acronyms:

<b>CAP</b>	CableHome Addressing Portal
<b>CDC</b>	CableHome DHCP Client (component of CDP)
<b>CDP</b>	CableHome DHCP Portal
<b>CDS</b>	CableHome DHCP Server (component of CDP)
<b>CMP</b>	CableHome Management Portal
<b>CTP</b>	CableHome Test Portal
<b>DHCP</b>	Dynamic Host Configuration Protocol
<b>NAPT</b>	Network Address and Port Translation
<b>NAT</b>	Network Address Translation
<b>PS</b>	Portal Services

## 4 REQUIREMENTS

The CableHome™ PSDev MIB MUST be implemented as defined below.

```

CABH-PS-DEV-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Integer32,
    Unsigned32,
    TimeTicks,
    NOTIFICATION-TYPE                FROM SNMPv2-SMI

    TruthValue,
    PhysAddress,
    DateAndTime,
    TimeStamp,
    RowStatus                        FROM SNMPv2-TC

    SnmpAdminString                  FROM SNMP-FRAMEWORK-MIB

    OBJECT-GROUP,
    MODULE-COMPLIANCE,
    NOTIFICATION-GROUP              FROM SNMPv2-CONF

    ifIndex                          FROM IF-MIB

    InetAddressType,
    InetAddress                      FROM INET-ADDRESS-MIB

    IANAifType                       FROM IANAifType-MIB

    docsDevSwCurrentVers,
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    docsDevSwFilename,
    docsDevSwServer                  FROM DOCS-CABLE-DEVICE-MIB -- RFC2669

    cabhCdpServerDhcpAddress,
    cabhCdpWanDataAddrClientId,
    cabhCdpLanTransThreshold,
    cabhCdpLanTransCurCount        FROM CABH-CDP-MIB

    ZeroBasedCounter32              FROM RMON2-MIB

    cabhQos2NumActivePolicyHolder,
    cabhQos2PolicyHolderEnabled,
    cabhQos2PolicyAdmissionControl  FROM CABH-QOS2-MIB

    clabProjCableHome               FROM CLAB-DEF-MIB;

cabhPsDevMib MODULE-IDENTITY
    LAST-UPDATED "200607280000Z" -- July 28, 2006.
    ORGANIZATION "CableLabs Broadband Access Department"
    CONTACT-INFO
        "CableHome MIBs
        Postal: Cable Television Laboratories, Inc.
        858 Coal Creek Circle
        Louisville, Colorado 80027
        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 objects for the Portal Services logical element of a CableHome compliant Residential Gateway device. The PS device parameters describe general PS Device attributes and behavior characteristics."

REVISION "200607280000Z"

## DESCRIPTION

"This revision updates the CONTACT-INFO in the MODULE-IDENTITY."

::= { clabProjCableHome 1 }

## -- Textual Conventions

```

cabhPsDevMibObjects    OBJECT IDENTIFIER ::= { cabhPsDevMib 1 }
cabhPsDevBase          OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 1 }
cabhPsDevProv          OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 2 }
cabhPsDevAttrib        OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 3 }
cabhPsDevPsAttrib      OBJECT IDENTIFIER ::= { cabhPsDevAttrib 1 }
cabhPsDevBpAttrib      OBJECT IDENTIFIER ::= { cabhPsDevAttrib 2 }
cabhPsDevStats         OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 4 }
cabhPsDevAccessControl OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 5 }
cabhPsDevMisc          OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 6 }
cabhPsDevUI            OBJECT IDENTIFIER ::= { cabhPsDevMisc 1 }
cabhPsDev802dot11      OBJECT IDENTIFIER ::= { cabhPsDevMisc 2 }
cabhPsDevUpnp          OBJECT IDENTIFIER ::= { cabhPsDevMisc 3 }
cabhPsDevUpnpBase      OBJECT IDENTIFIER ::= { cabhPsDevUpnp 1 }
cabhPsDevUpnpCommands OBJECT IDENTIFIER ::= { cabhPsDevUpnp 2 }

```

--

-- The following group describes the base objects in the PS.

-- These are device based parameters.

--

cabhPsDevDateTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The date and time, with optional timezone information."

::= { cabhPsDevBase 1 }

cabhPsDevResetNow OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to true(1) causes the stand-alone or embedded PS device to reboot. Device code initializes as if starting from a power-on reset. The CMP ensures that MIB object values persist as specified in Appendix I of the CableHome specification. Reading this object always returns false(2)."

::= { cabhPsDevBase 2 }

cabhPsDevSerialNumber OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

```

        "The manufacturer's serial number for this PS. This
        parameter is manufacturer provided and is stored in
        non-volatile memory."
 ::= { cabhPsDevBase 3 }

cabhPsDevHardwareVersion OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE (0..48))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The manufacturer's hardware version for this PS. This
        parameter is manufacturer provided and is stored in
        non-volatile memory."
 ::= { cabhPsDevBase 4 }

cabhPsDevWanManMacAddress OBJECT-TYPE
    SYNTAX      PhysAddress (SIZE (0..16))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The PS WAN-Man MAC address. This is the PS hardware
        address to be used by the CDC to uniquely identify
        the PS to the cable data network DHCP server for
        the acquisition of an IP address to be used for
        management messaging between the cable network
        NMS and the CMP."
 ::= { cabhPsDevBase 5 }

cabhPsDevWanDataMacAddress OBJECT-TYPE
    SYNTAX      PhysAddress (SIZE (0..16))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The PS WAN-Data MAC address. The PS could have multiple
        WAN-Data Interfaces, which share the same hardware address.
        The client identifiers will be unique so that each may be
        assigned a different, unique IP address."
 ::= { cabhPsDevBase 6 }

cabhPsDevTypeIdentifier OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This is a copy of the device type identifier used in the
        DHCP option 60 exchanged between the PS and the DHCP
        server."
    REFERENCE
        "CableHome Specification, CDC Function System
        Description section."
 ::= { cabhPsDevBase 7 }

cabhPsDevSetToFactory OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Setting this object to true(1) sets all PsDev MIB objects
        to the factory default values. Reading this object always
        returns false(2)."
```

```
 ::= { cabhPsDevBase 8 }
```

```
cabhPsDevWanManClientId OBJECT-TYPE
```

```
SYNTAX      OCTET STRING (SIZE (1..80))
MAX-ACCESS  read-write
STATUS      deprecated
DESCRIPTION
    "This is the client ID used for WAN-MAN DHCP requests.
    The default value is the 6 byte MAC address."
 ::= { cabhPsDevBase 9 }

cabhPsDevTodSyncStatus OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates whether the PS was able to
    successfully synchronize with the Time of Day (ToD) Server
    in the cable network. The PS sets this object to true(1) if
    the PS successfully synchronizes its time with the ToD
    server. The PS sets this object to false(2) if the PS does
    not successfully synchronize with the ToD server."
DEFVAL { false }
 ::= { cabhPsDevBase 10 }

cabhPsDevProvMode OBJECT-TYPE
SYNTAX      INTEGER
{
    dhcpmode(1),
    snmpmode(2),
    dormantCHmode(3)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the provisioning mode in which the
    PS is operating. If the PS is operating in DHCP
    Provisioning Mode as described in the CableHome
    specification, the PS sets this object to dhcpmode(1).
    If the PS is operating in SNMP Provisioning Mode, the PS
    sets this object to snmpmode(2). If the PS is not
    configured to operate in either dhcpmode or snmpmode
    it will fall back to Dormant CableHome Mode and set
    the value of cabhPsDevProvMode to dormantCHmode(3)."
 ::= { cabhPsDevBase 11 }

cabhPsDevLastSetToFactory OBJECT-TYPE
SYNTAX      TimeStamp
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The value of sysUpTime when cabhPsDevSetToFactory was
    last set to true. Zero if never reset."
 ::= { cabhPsDevBase 12 }

cabhPsDevTrapControl OBJECT-TYPE
SYNTAX BITS {
    cabhPsDevInitTLVUnknownTrap(0),
    cabhPsDevInitTrap(1),
    cabhPsDevInitRetryTrap(2),
    cabhPsDevDHCPFailTrap(3),
    cabhPsDevSwUpgradeInitTrap(4),
    cabhPsDevSwUpgradeFailTrap(5),
    cabhPsDevSwUpgradeSuccessTrap(6),
    cabhPsDevSwUpgradeCVCFailTrap(7),
    cabhPsDevTODFailTrap(8),
```

```

        cabhPsDevCdpWanDataIpTrap(9),
        cabhPsDevCdpThresholdTrap(10),
        cabhPsDevCspTrap(11),
        cabhPsDevCapTrap(12),
        cabhPsDevCtpTrap(13),
        cabhPsDevProvEnrollTrap(14),
        cabhPsDevCdpLanIpPoolTrap(15),
        cabhPsDevUpnpMultiplePHTrap(16)
    }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The object is used to enable PS notifications.
    From left to right, the set bit indicates
    the corresponding PS notification is enabled.
    For example, if the first bit is set, then
    cabhPsDevInitTLVUnknownTrap is enabled.
    If the bit is zero, the trap is disabled."
DEFVAL { 'h }
 ::= { cabhPsDevBase 13 }

--
-- The following group defines Provisioning Specific parameters
--

cabhPsDevProvisioningTimer OBJECT-TYPE
    SYNTAX      INTEGER (0..16383)
    UNITS       "minutes"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This object enables the user to set the duration of the
        provisioning timeout timer. The value is in minutes.
        Setting the timer to 0 disables it. The default value
        for the timer is 5."
    DEFVAL { 5 }
    ::= { cabhPsDevProv 1 }

cabhPsDevProvConfigFile OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..128))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The URL of the TFTP host for downloading provisioning and
        configuration parameters to this device. Returns NULL if
        the server address is unknown."
    ::= { cabhPsDevProv 2 }

cabhPsDevProvConfigHash OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0|20))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Hash of the contents of the PS config file, which is
        calculated by the NMS and sent to the PS. For the SHA-1
        authentication algorithm the hash length is 160 bits. This
        hash value is encoded in binary format."
    ::= { cabhPsDevProv 3 }

cabhPsDevProvConfigFileSize OBJECT-TYPE
    SYNTAX      Integer32
    UNITS       "bytes"
    MAX-ACCESS  read-only

```

```
STATUS      current
DESCRIPTION
    "Size of the configuration file."
 ::= { cabhPsDevProv 4 }

cabhPsDevProvConfigFileStatus OBJECT-TYPE
SYNTAX      INTEGER
{
    idle(1),
    busy(2)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the current status of the
    configuration file download process. It is provided to
    indicate to the management entity that the PS will reject
    PS Configuration File triggers (set request to
    cabhPsDevProvConfigFile) when busy."
 ::= { cabhPsDevProv 5 }

cabhPsDevProvConfigTLVProcessed OBJECT-TYPE
SYNTAX      INTEGER (0..16383)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number of TLVs processed in config file."
 ::= { cabhPsDevProv 6 }

cabhPsDevProvConfigTLVRejected OBJECT-TYPE
SYNTAX      INTEGER (0..16383)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number of TLVs rejected in config file."
 ::= { cabhPsDevProv 7 }

cabhPsDevProvSolicitedKeyTimeout OBJECT-TYPE
SYNTAX      Integer32 (15..600)
UNITS       "seconds"
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "This timeout applies only when the Provisioning Server
    initiated key management (with a Wake Up message) for
    SNMPv3. It is the period during which the PS will save
    a number (inside the sequence number field) from the sent
    out AP Request and wait for the matching AP Reply from the
    Provisioning Server."
DEFVAL { 120 }
 ::= { cabhPsDevProv 8 }

cabhPsDevProvState OBJECT-TYPE
SYNTAX      INTEGER
{
    pass(1),
    inProgress(2),
    fail(3)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object indicates the completion state of the
```

```

        initialization process. Pass or Fail states occur after
        completion of the initialization flow. InProgress occurs
        from PS initialization start to PS initialization end."
 ::= { cabhPsDevProv 9 }

cabhPsDevProvAuthState OBJECT-TYPE
    SYNTAX      INTEGER
    {
        accepted(1),
        rejected(2)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object indicates the authentication state of the
        configuration file."
 ::= { cabhPsDevProv 10 }

cabhPsDevProvCorrelationId OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      deprecated
    DESCRIPTION
        "Random value generated by the PS for use in registration
        authorization. It is for use only in the PS initialization
        messages and for PS configuration file download. This value
        appears in both cabhPsDevProvisioningStatus and
        cabhPsDevProvisioningEnrollmentReport informs to verify the
        instance of loading the configuration file."
 ::= { cabhPsDevProv 11 }

cabhPsDevTimeServerAddrType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The IP address type of the Time server (RFC-868).
        IP version 4 is typically used."
 ::= { cabhPsDevProv 12 }

cabhPsDevTimeServerAddr OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The IP address of the Time server (RFC-868). Returns
        0.0.0.0 if the time server IP address is unknown."
 ::= { cabhPsDevProv 13 }

-----
--
--   PS Device Profile Group
--
--   The cabhPsDevPsProfile contains the Residential Gateway's
--   device attributes. This set of attributes is analogous to
--   some attributes of the BP Device profile.
--
-----

cabhPsDevPsDeviceType OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  read-only
    STATUS      current

```

```

DESCRIPTION
    "The type of device, as defined in the CableHome
    specifications (Residential Gateway Device or CableHome
    Host Device), that implements this OID."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "CableHome Residential Gateway" }
 ::= { cabhPsDevPsAttrib 1 }

cabhPsDevPsManufacturerUrl OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Universal Resource Locator to the Residential Gateway
    device manufacturer's web site."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description"
 ::= { cabhPsDevPsAttrib 3 }

cabhPsDevPsModelUrl OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Universal Resource Locator to the web site describing this
    CableHome compliant residential gateway device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
 ::= { cabhPsDevPsAttrib 7 }

cabhPsDevPsModelUpc OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Universal Product Code of the CableHome compliant
    residential gateway device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description.
    See also: Uniform Code Council www.uc-council.org"
 ::= { cabhPsDevPsAttrib 8 }

-----
--
--   CableHome Host/BP Device Profile Table
--
--   The cabhPsDevBpProfile contains the list of the CableHome Host
--   device attributes provided to the PS by BPs passing their Device
--   Profile XML schema via SOAP/HTTP.
--
-----

cabhPsDevBpProfileTable OBJECT-TYPE
SYNTAX SEQUENCE OF CabhPsDevBpProfileEntry
MAX-ACCESS not-accessible
STATUS obsolete
DESCRIPTION
    "This table contains the information for the CableHome Host

```

```

        Device Profiles. Attributes of a device make up a Device
        Profile."
 ::= { cabhPsDevBpAttrib 1 }

cabhPsDevBpProfileEntry OBJECT-TYPE
    SYNTAX      CabhPsDevBpProfileEntry
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "The table that describes the CableHome Host Device
        Profile."
    INDEX { cabhPsDevBpIndex }
    ::= { cabhPsDevBpProfileTable 1 }

CabhPsDevBpProfileEntry ::= SEQUENCE {
    cabhPsDevBpIndex                INTEGER,
    cabhPsDevBpDeviceType           SnmpAdminString,
    cabhPsDevBpManufacturer         SnmpAdminString,
    cabhPsDevBpManufacturerUrl     SnmpAdminString,
    cabhPsDevBpSerialNumber        SnmpAdminString,
    cabhPsDevBpHardwareVersion     SnmpAdminString,
    cabhPsDevBpHardwareOptions     SnmpAdminString,
    cabhPsDevBpModelName           SnmpAdminString,
    cabhPsDevBpModelNumber         SnmpAdminString,
    cabhPsDevBpModelUrl           SnmpAdminString,
    cabhPsDevBpModelUpc           SnmpAdminString,
    cabhPsDevBpModelSoftwareOs     SnmpAdminString,
    cabhPsDevBpModelSoftwareVersion SnmpAdminString,
    cabhPsDevBpLanInterfaceType    IANAifType,
    cabhPsDevBpNumberInterfacePriorities INTEGER,
    cabhPsDevBpPhysicalLocation    SnmpAdminString,
    cabhPsDevBpPhysicalAddress     PhysAddress
}

cabhPsDevBpIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..65535)
    MAX-ACCESS  not-accessible
    STATUS      obsolete
    DESCRIPTION
        "Integer index into the CableHome Host Device Profile
        Table."
    ::= { cabhPsDevBpProfileEntry 1 }

cabhPsDevBpDeviceType OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(0..32))
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The type of device, as defined by the CableHome
        specifications (CableHome Residential Gateway or CableHome
        Host Device), that passed the Device Profile whose
        information is made available through this table row."
    REFERENCE
        "CableHome 1.1 Specification,
        6.5.3.1.3 Device Profile Description."
    DEFVAL { "CableHome Host" }
    ::= { cabhPsDevBpProfileEntry 2 }

cabhPsDevBpManufacturer OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(0..32))
    MAX-ACCESS  read-only
    STATUS      obsolete

```

```
DESCRIPTION
    "The name of the CableHome Host Device's manufacturer."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 3 }

cabhPsDevBpManufacturerUrl OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "Universal Resource Locator to the CableHome Host device
    manufacturer's web site."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 4 }

cabhPsDevBpSerialNumber OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The serial number assigned by the manufacturer for this
    CableHome Host Device."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 5 }

cabhPsDevBpHardwareVersion OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The hardware version number assigned by the manufacturer
    for this CableHome Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 6 }

cabhPsDevBpHardwareOptions OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The hardware options implemented on this CableHome Host
    Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 7 }

cabhPsDevBpModelName OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The model name assigned by the manufacturer for this
```

```

        CableHome Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 8 }

cabhPsDevBpModelNumber OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The model number assigned by the manufacturer for this
    CableHome Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 9 }

cabhPsDevBpModelUrl OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The Universal Resource Locator to the web site describing
    this CableHome Host Device model."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 10 }

cabhPsDevBpModelUpc OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "Universal Product Code of the CableHome Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 11 }

cabhPsDevBpModelSoftwareOs OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "Software operating system implemented on the CableHome
    Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 12 }

cabhPsDevBpModelSoftwareVersion OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION

```

```

        "Version of the operating system implemented on the
        CableHome Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 13 }

cabhPsDevBpLanInterfaceType OBJECT-TYPE
SYNTAX      IANAifType
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The ifType for the LAN Interface implemented on the
    CableHome Host Device."
REFERENCE
    "http://www.iana.org/assignments/ianaiftype-mib.
    See also: CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { other }
 ::= { cabhPsDevBpProfileEntry 14 }

cabhPsDevBpNumberInterfacePriorities OBJECT-TYPE
SYNTAX      INTEGER (1..8)
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "Number of QoS priorities supported by the LAN technology
    (Data Link Layer) implemented in the CableHome Host
    Device."
DEFVAL { 1 }
 ::= { cabhPsDevBpProfileEntry 15 }

cabhPsDevBpPhysicalLocation OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..32))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "Physical location of the CableHome Host Device."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { "" }
 ::= { cabhPsDevBpProfileEntry 16 }

cabhPsDevBpPhysicalAddress OBJECT-TYPE
SYNTAX      PhysAddress (SIZE (0..16))
MAX-ACCESS  read-only
STATUS      obsolete
DESCRIPTION
    "The CableHome Host Device's hardware address."
REFERENCE
    "CableHome 1.1 Specification,
    6.5.3.1.3 Device Profile Description."
DEFVAL { 'h' }
 ::= { cabhPsDevBpProfileEntry 17 }

-----
--
-- LAN IP Traffic Statistics Table
--
-- The cabhPsDevLanIpTrafficTable contains the Traffic Statistics
-- for all LAN IP Devices connected to the PS. When the PS learns a

```

```

-- new LAN IP address an entry is added to this table
--
=====

cabhPsDevLanIpTrafficCountersReset OBJECT-TYPE
    SYNTAX      INTEGER
    {
        clearCounters(1),
        clearTable(2)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Setting this object to clearCounters(1) resets all the
        traffic statistic counter entries to zero in the
        cabhPsDevLanIpTrafficTable. Setting this object to
        clearTable(2) removes all entries in the
        cabhPsDevLanIpTrafficTable. Reading this object always
        returns clearCounters(1)."
```

```

    DEFVAL { clearCounters }
    -- Default read value
    ::= { cabhPsDevStats 1 }
```

```

cabhPsDevLanIpTrafficCountersLastReset OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when
        cabhPsDevLanIpTrafficCountersReset was last written to.
        Zero if never written to."
    ::= { cabhPsDevStats 2 }
```

```

cabhPsDevLanIpTrafficEnabled OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Setting this object to true(1) turns on the IP traffic
        counters. Setting this object false(2) turns off the IP
        traffic counters."
    DEFVAL { false } -- IP traffic counters are off by default
    ::= { cabhPsDevStats 3 }
```

```

cabhPsDevLanIpTrafficTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF CabhPsDevLanIpTrafficEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains IP-layer Traffic Statistics for all
        LAN IP Devices connected to the PS."
    ::= { cabhPsDevStats 4 }
```

```

cabhPsDevLanIpTrafficEntry OBJECT-TYPE
    SYNTAX      CabhPsDevLanIpTrafficEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of Traffic Statistics for LAN IP Devices."
    INDEX { cabhPsDevLanIpTrafficIndex }
    ::= { cabhPsDevLanIpTrafficTable 1 }
```

```

CabhPsDevLanIpTrafficEntry ::= SEQUENCE {
```

```

cabhPsDevLanIpTrafficIndex          INTEGER,
cabhPsDevLanIpTrafficInetAddressType InetAddressType,
cabhPsDevLanIpTrafficInetAddress    InetAddress,
cabhPsDevLanIpTrafficInOctets        ZeroBasedCounter32,
cabhPsDevLanIpTrafficOutOctets       ZeroBasedCounter32
}

```

```

cabhPsDevLanIpTrafficIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..65535)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The Index into the LAN IP Traffic Statistics Table."
    ::= { cabhPsDevLanIpTrafficEntry 1 }

```

```

cabhPsDevLanIpTrafficInetAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The type of IP address assigned to the LAN IP device to
        which the statistics in this table row apply.  IP version
        4 is typically used."
    DEFVAL { ipv4 }
    ::= { cabhPsDevLanIpTrafficEntry 2 }

```

```

cabhPsDevLanIpTrafficInetAddress OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The IP address of the LAN IP device to which the
        statistics in this table row apply.  An IPv4 IP
        address is typically used."
    ::= { cabhPsDevLanIpTrafficEntry 3 }

```

```

cabhPsDevLanIpTrafficInOctets OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total number of octets the PS forwarded from the WAN
        interfaces to the LAN IP device associated with the value
        of cabhPsDevLanIpTrafficInetAddress. This counter object
        does not include LAN-to-LAN traffic."
    ::= { cabhPsDevLanIpTrafficEntry 4 }

```

```

cabhPsDevLanIpTrafficOutOctets OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total number of octets the PS forwarded from the LAN
        IP device associated with the value of
        cabhPsDevLanIpTrafficInetAddress, to the WAN interfaces.
        This counter object does not include LAN-to-LAN traffic."
    ::= { cabhPsDevLanIpTrafficEntry 5 }

```

```

=====
--
--   CableHome Interface Access Control Table
--
--   The cabhPsDevAccessControlTable lists the physical addresses

```

```
-- of all LAN IP Devices for which the PS will forward traffic to
-- or from an interface type for which the Table is enabled.
-- If an interface type is enabled, the PS will not forward traffic
-- to or from any device on that interface whose physical address
-- is not listed in the Access Control Table. If an interface type
-- is disabled, the PS does apply forwarding restrictions based on
-- entires of the Access Control Table.
--
--
=====
```

cabhPsDevAccessControlEnable OBJECT-TYPE

```
SYNTAX      BITS {
    hpna(0), -- most significant bit
    ieee80211(1),
    ieee8023(2),
    homeplug(3),
    usb(4),
    ieee1394(5),
    scsi(6),
    other(7)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the interface type(s) for which the PSDev Access Control Table access rules are enabled. If a bit field is set to 1, the PS MUST only forward traffic received through that interface type if the source physical address is an entry in the cabhPsDevAccessControlTable. If a bit field is set to 1, the PS MUST only forward traffic destined to a device on that interface type if the destination physical address is an entry in the cabhPsDevAccessControlTable. If the bit field for an interface type is not set, i.e., if it is equal to 0, the PS MUST NOT apply forwarding restrictions for that interface type based on the Access Control Table. The PS MUST implement cabhPsDevAccessControlEnable for bit 1 (wireless LAN) and for bit 3 (HomePlug). If the PS does not implement cabhPsDevAccessControlEnable for any of the other defined bits, the PS MUST return inconsistent value error, and not allow the bit to be set, if an attempt is made to set a bit that is not implemented.

If the PS implements a HomePNA interface and implements the PSDev Access Control Table enable functionality for the HomePNA interface, then if bit 0 is set, the PS MUST apply PSDev Access Control Table access rules to any PS interface of IANAifType 220 (Home Phoneline Networking Alliance). If the PS does not implement PSDev Access Control Table enable functionality for the HomePNA interface, and an attempt is made to set bit 0 to value '1', the PS MUST return 'Inconsistent Value' error and MUST NOT set bit 0 to value '1'.

If bit 1 (ieee80211) is set, the PS MUST apply PSDev Access Control Table access rules to any PS interface of IANAifType 71 (radio spread spectrum).

If the PS implements an IEEE 802.3/CSMA-CD interface and implements the PSDev Access Control Table enable functionality for the IEEE 802.3/CSMA-CD interface, then if bit 2 is set, the PS MUST apply PSDev Access Control Table access rules to any PS interface of IANAifType 6

(ethernetCsmacd). If the PS does not implement PSDev Access Control Table enable functionality for a IEEE 802.3/CSMA-CD interface, and an attempt is made to set bit 2 to value '1', the PS MUST return 'Inconsistent Value' error and MUST NOT set bit 2 to value '1'.

If bit 3 (homeplug) is set, the PS MUST apply PSDev Access Control Table access rules to any PS HomePlug Powerline Alliance (HomePlug) interface as defined by HomePlug Powerline Alliance ([www.homeplug.org](http://www.homeplug.org)).

If the PS implements a USB interface and implements the PSDev Access Control Table enable functionality for the USB interface, then if bit 4 is set, the PS MUST apply PSDev Access Control Table access rules to any PS interface of IANAifType 160 (USB). If the PS does not implement PSDev Access Control Table enable functionality for the USB interface, and an attempt is made to set bit 4 to value '1', the PS MUST return 'Inconsistent Value' error and MUST NOT set bit 4 to value '1'.

If the PS implements an IEEE 1394 interface and implements the PSDev Access Control Table enable functionality for the IEEE 1394 interface, then if bit 5 is set, the PS MUST apply PSDev Access Control Table access rules to any PS interface of IANAifType 144 (IEEE1394 High Performance Serial Bus). If the PS does not implement PSDev Access Control Table enable functionality for the IEEE 1394 interface, and an attempt is made to set bit 5 to value '1', the PS MUST return 'Inconsistent Value' error and MUST NOT set bit 5 to value '1'.

If the PS implements a SCSI interface and implements the PSDev Access Control Table enable functionality for the SCSI interface, then if bit 6 is set, the PS MUST apply PSDev Access Control Table access rules to any PS SCSI-2 or SCSI-3 interface. If the PS does not implement PSDev Access Control Table enable functionality for the SCSI interface, and an attempt is made to set bit 6 to value '1', the PS MUST return 'Inconsistent Value' error and MUST NOT set bit 6 to value '1'.

If bit 7 (other) is set, the PS MAY apply PSDev Access Control Table filter access to any PS interface of a type other than the types defined by bits 0 - 6."

```
DEFVAL { '00'h } -- null, all interface types disabled
 ::= { cabhPsDevAccessControl 1 }
```

cabhPsDevAccessControlTable OBJECT-TYPE

```
SYNTAX      SEQUENCE OF CabhPsDevAccessControlEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

"This table contains a list of the physical addresses of LAN IP Devices to and from which the PS will forward traffic through a LAN interface if cabhPsDevAccessControlEnable is enabled(1) for that interface type."

REFERENCE

"CableHome specification, Packet Handling & Address Translation section."

```
 ::= { cabhPsDevAccessControl 2 }
```

```

cabhPsDevAccessControlEntry OBJECT-TYPE
    SYNTAX      CabhPsDevAccessControlEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of the physical addresses for LAN IP Devices
        to and from which the PS will forward traffic when
        the PSDev Access Control Table is enabled."
    INDEX { cabhPsDevAccessControlIndex }
    ::= { cabhPsDevAccessControlTable 1 }

CabhPsDevAccessControlEntry ::= SEQUENCE {
    cabhPsDevAccessControlIndex      INTEGER,
    cabhPsDevAccessControlPhysAddr  PhysAddress,
    cabhPsDevAccessControlRowStatus RowStatus
}

cabhPsDevAccessControlIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..65535)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Integer index into the CableHome PSDev Access Control
        Table."
    ::= { cabhPsDevAccessControlEntry 1 }

cabhPsDevAccessControlPhysAddr OBJECT-TYPE
    SYNTAX      PhysAddress (SIZE (1..16))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The physical address of the LAN IP Device for which the PS
        will forward traffic when the PSDev Access Control
        Table is enabled. The PS will not forward traffic
        from any LAN IP Device whose physical address is
        not an entry of the PSDev Access Control Table when the
        PSDev Access Control Table is enabled for the
        corresponding interface."
    ::= { cabhPsDevAccessControlEntry 2 }

cabhPsDevAccessControlRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The RowStatus interlock for the creation and deletion
        of a cabhPsDevAccessControlTable entry. Any writable
        object in each row of the cabhPsDevAccessControlTable
        can be modified at any time while the row is active(1)."
    ::= { cabhPsDevAccessControlEntry 3 }

-----
--
--      CableHome Miscellaneous MIB
--
--      This branch of cabhPsDevMib contains extensions related to
--      functionalities defined for other standards bodies or outside
--      of CableHome fully defined features.
--
-----
-----

```

```

--
-- CableHome User Interface Miscellaneous MIB
--
-- PS MIB objects for controlling features of the CableHome compliant
-- residential gateways User Interface (UI) if present.
--
=====

cabhPsDevUILogin OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..32))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This parameter specifies the value of the user login name
        required for access to the CableHome compliant residential
        gateway device's user interface."
    ::= { cabhPsDevUI 1 }

cabhPsDevUIPassword OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(4..32))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This parameter specifies the value of the user password
        required for access to the CableHome compliant residential
        gateway device's user interface."
    ::= { cabhPsDevUI 2 }

cabhPsDevUISelection OBJECT-TYPE
    SYNTAX      INTEGER {
        manufacturerLocal(1),
        cableOperatorLocal(2),
        cableOperatorServer(3),
        disabledUI(4)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Indicates the type of Web user interface (UI)
        to present to the user if Web interface is supported:
        manufacturerLocal:
            PS uses the vendor UI shipped with the device.
        cableOperatorLocal:
            PS uses a cable operator defined UI interface.
            To operate properly, It should require a special code
            image downloaded into the PS. By default, if no cable
            operator UI is being defined, selecting this option
            points to 'manufacturerLocal' selection.
        cableOperatorServer:
            PS redirects HTTP requests to its UI to the URL specified
            in cabhPsDevUIServerUrl.
        disabledUI:
            PS responds to HTTP requests to its UI with an HTTP page
            containing the value of
            cabhPsDevUISelectionDisabledBodyText as the body tag;
            or with a vendor specific message or HTTP error if that
            value is null."
    DEFVAL { manufacturerLocal }
    ::= { cabhPsDevUI 3 }

cabhPsDevUIServerUrl OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(0..255))
    MAX-ACCESS  read-write

```

```

STATUS      current
DESCRIPTION
    "URL used by the Indicate the UI to present to the user.
    The well formed URL is resolved by the PS by querying the
    DNS servers listed in cabhCdpWanDnsServerTable."
DEFVAL { "" }
 ::= { cabhPsDevUI 4 }

cabhPsDevUISelectionDisabledBodyText OBJECT-TYPE
SYNTAX      SnmpAdminString (SIZE(0..255))
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Default text for the HTTP body tag to include in the
    response to UI requests when the object
    cabhPsDevUISelection is set to 'disabledUI'
    An example of a body tag is below:
    <body>Feature currently disabled by Cable Operator</body>."
 ::= { cabhPsDevUI 5 }

-- =====
-- IEEE802dot11-MIB CableHome extension
-- =====

cabhPsDev802dot11BaseTable OBJECT-TYPE
SYNTAX      SEQUENCE OF CabhPsDev802dot11BaseEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "CableHome specifics controls for 80211 wireless
    interfaces."
 ::= { cabhPsDev802dot11 1 }

cabhPsDev802dot11BaseEntry OBJECT-TYPE
SYNTAX      CabhPsDev802dot11BaseEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "An entry in cabhPsDev802dot11BaseTable associated to a
    wireless interface of IANAifType ieee80211.(71)"
INDEX { ifIndex }
 ::= { cabhPsDev802dot11BaseTable 1 }

CabhPsDev802dot11BaseEntry ::=
SEQUENCE {
    cabhPsDev802dot11BaseSetToDefault      TruthValue,
    cabhPsDev802dot11BaseLastSetToDefault  TimeStamp,
    cabhPsDev802dot11BaseAdvertiseSSID    TruthValue,
    cabhPsDev802dot11BasePhyCapabilities  BITS,
    cabhPsDev802dot11BasePhyOperMode     INTEGER
}

cabhPsDev802dot11BaseSetToDefault OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "When set to true(1) the PS MUST reset to default values
    the Mib objects of IEEE802dot11-MIB module and others under
    cabhPsDev802dot11 for this entry related IfIndex.
    Reading this object always return false(2)."
DEFVAL { false }
 ::= { cabhPsDev802dot11BaseEntry 1 }

```

```

cabhPsDev802dot11BaseLastSetToDefault OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when
        cabhPsDev802dot11MIBSetToDefault was last set to true.
        Zero if never reset."
    ::= { cabhPsDev802dot11BaseEntry 2 }

cabhPsDev802dot11BaseAdvertiseSSID OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "When set to false(2) the PS does not advertise the BSS
        SSID in a proprietary manner. To avoid interoperability
        problems and service disruption it is RECOMMENDED to set
        this object always to true. This feature does not provide
        any security, and does not prevent Wireless Stations to
        obtain the SSID by sniffing frames from other stations in
        the ESS. If the device does not support the feature of
        turning on/off the SSID advertisement, this object always
        reports 'true(1)' and reports the error 'wrongValue' when
        set to 'false(2)."
```

DEFVAL { true }

```

    ::= { cabhPsDev802dot11BaseEntry 3 }

cabhPsDev802dot11BasePhyCapabilities OBJECT-TYPE
    SYNTAX      BITS {
        --ieee80211DSSS(0) , not interest
        ieee80211a(0),
        ieee80211b(1),
        ieee80211g(2)
        --ieee80211FHSS(8),
        --ieee80211IR(16)
        --values with comments are not requirements
        --included for completeness of 80211 spec.
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Indicates the PHY capabilities of the wireless interface."
    ::= { cabhPsDev802dot11BaseEntry 4 }

cabhPsDev802dot11BasePhyOperMode OBJECT-TYPE
    SYNTAX      INTEGER {
        ieee80211a(1),
        ieee80211b(2),
        ieee80211g(4),
        ieee80211bg(24)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Indicates the PHY mode of operation being set for the
        wireless interface. Setting this object will update the
        value of dot11PhyType. Accordingly (if implemented), as
        well as the object dot11OperationalRateSet to the 80211
        mandatory rates for dot11PhyType.

        It is left to vendors the option to update the values of
```

PS optional dot11SupportedDataRatesTxEntry and dot11SupportedDataRatesRxEntry tables based on the operational mode.

In the case of selecting ieee80211bg(14), dot11PhyType reports erp(6) and dot11OperationalRateSet should report HRDSSS and ERP mandatory rates and in addition 54 Mbps rate if supported by PS. e.g. : (this example assumes 54 Mbps OFDM is supported.

HR-DSSS :

Mandatory:

1 Mbps '80'H + '01'H  
 2 Mbps '80'H + '02'H  
 5.5 Mbps '80'H + '0B'H  
 11 Mbps '80'H + '16'H

ERP :

Mandatory:

6 Mbps '80'H + '0C'H  
 12 Mbps '80'H + '18'H  
 24 Mbps '80'H + '30'H

(if supported) 54 Mbps '80'H + '6C'

Optional:

22 Mbps '00'H + '2C'H  
 33 Mbps '00'H + '42'H  
 18 Mbps '00'H + '24'H  
 36 Mbps '00'H + '48'H  
 48 Mbps '00'H + '60'H

Combined operational rates in :

dot11OperationalRateSet value in rate order regardless of '80'H flag and using dots for clarity :  
 + means flagged '80'H, - not flagged.

Rates Mbps: +1,+2,+5.5,+6,+11,+12,-18,-22,+24,-33,-36,-48,+54  
 Hex: '81.82.8B.8C.96.98. 24.2C.B0.48.42. 60.EC'H

The default value of this object is left to the vendor to accommodate the factory defaults for the device."

REFERENCE

"IEEE Std 802.11, 1999 Edition,  
 IEEE Std 802.11a-1999,  
 IEEE Std 802.11b-1999/Cor 1-2001,  
 IEEE Std 802.11g-2003."

::= { cabhPsDev802dot11BaseEntry 5 }

```
-- =====
-- IEEE802dot11MIB CableHome extension for security configuration
-- =====
```

cabhPsDev802dot11SecTable OBJECT-TYPE

SYNTAX SEQUENCE OF CabhPsDev802dot11SecEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION

"CableHome specifics controls for configuring the security mechanisms of 80211 wireless interfaces."

::= { cabhPsDev802dot11 2 }

cabhPsDev802dot11SecEntry OBJECT-TYPE

SYNTAX CabhPsDev802dot11SecEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION

```

        "An entry in cabhPsDev802dot11SecTable associated to a
        wireless interface of IANAifType ieee80211(71)."
```

INDEX { ifIndex }

```
 ::= { cabhPsDev802dot11SecTable 1 }
```

CabhPsDev802dot11SecEntry ::=

```
 SEQUENCE {
     cabhPsDev802dot11SecCapabilities          BITS,
     cabhPsDev802dot11SecOperMode             BITS,
     cabhPsDev802dot11SecPassPhraseToWEPKey   OCTET STRING,
     cabhPsDev802dot11SecUsePassPhraseToWEPKeyAlg TruthValue,
     cabhPsDev802dot11SecPSKPassPhraseToKey   OCTET STRING,
     cabhPsDev802dot11SecWPAPreSharedKey      OCTET STRING,
     cabhPsDev802dot11SecWPAREkeyTime         Unsigned32,
     cabhPsDev802dot11SecControl              INTEGER,
     cabhPsDev802dot11SecCommitStatus         INTEGER
 }
```

cabhPsDev802dot11SecCapabilities OBJECT-TYPE

```
 SYNTAX      BITS {
                wep64(0),
                wep128(1),
                wpaPSK(2)
                --wpa2PSK(3)
            }
 MAX-ACCESS  read-only
 STATUS      current
 DESCRIPTION
     "The PS capabilities for Authentication and encryption used
     to authenticate 802.11 clients."
 ::= { cabhPsDev802dot11SecEntry 1 }
```

cabhPsDev802dot11SecOperMode OBJECT-TYPE

```
 SYNTAX      BITS {
                wep64(0),
                wep128(1),
                wpaPSK(2)
                -- wpa2PSK(3)
            }
 MAX-ACCESS  read-write
 STATUS      current
 DESCRIPTION
     "Indicates the Authentication and encryption mechanism to
     be enabled for the users and advertised in Beacon messages.
     Bits set to this object and not supported by the PS in
     cabhPsDev802dot11SecCapabilities are set to '0' without
     failing the SNMP set. Setting two bit that the PS does not
     support in combination returns an error 'wrongValue'.
     In particular:
         Setting to '1' both wep64(0)and wep128(1) bits returns an
         error'wrongValue'.
         Setting a combination of WEP bits (wep64(0) or wep128(1))
         and wpaPSK bit returns is not a mandatory requirement,
         therefore an error 'wrongValue' may be reported.

     Setting any bit to '1' must not affect the value of object
     dot11PrivacyInvoked.

     If dot11PrivacyInvoked is set to 'false', the 80211 WEP
     security mechanism is disabled (see dot11PrivacyInvoked
     description) and the value of this object is not used.

     Setting the wpaPSK(2) bit to '1' indicates the usage of
```

WPA-PSK TKIP.

Note that to enable the PSK security mechanism, the value of cabhPsDev802dot11SecWPAPreSharedKey must be a non-zero length string."

```
::= { cabhPsDev802dot11SecEntry 2 }
```

cabhPsDev802dot11SecPassPhraseToWEPKey OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0|5..63))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Password used for PS to derive WEP encryption keys. After a successful set, the values of dot11WEPDefaultKeyValue are populated as described below:

For wep64:

If cabhPsDev802dot11SecOperMode wep64 bit is set to '1' This object value (x) is used as a generator of a 4 octet seed.

```
seed[i%4] = XOR(seed[i%4],x[i]); i from 1 to len(x) -1
```

The values of the four dot11WEPDefaultKeyValue are calculated as indicated below :

```
loop j 1..4
loop k 0..4
seed = seed * (((26*8+1)*256-1)*4+1) + 2531011
The value is always truncated at 32 bits.
OCTETk = (seed >> 16 )& 0xFF -lowest octet-
end loop
dot11WEPDefaultKeyValue(j) = OCTET0,OCTET1, ... OCTET4
end loop
```

Note that seed value is constantly re-computed when calculating each octet of each default WEP key.

For wep128:

If cabhPsDev802dot11SecOperMode wep128 bit is set to '1' This object value (x) fills a 64 octet buffer y :  
y = x,x,x...up to 64 octets.  
Calculate the 128-bit MD5 digest of y  
the values of all dot11WEPDefaultKeyValue (1..4)  
are calculated by truncating the first first 13 octets  
of MD5y.

```
dot11WEPDefaultKeyValue = MD5y0,MD5y1, .. MD5y12
```

This object value is normally read by issuing SNMP request PDUs. This object can be cleared with an SNMP SET to an empty string Value and the PS MUST not update the type of keys being set to '1' in cabhPsDev802dot11SecOperMode.

If cabhPsDev802dot11SecUsePassPhraseToKeyAlg is set to false(2), the behavior of a SET to this object depends on the bits set for cabhPsDev802dot11SecOperMode as follows:

If cabhPsDev802dot11SecOperMode bit wep64 is set to '1' and this object value length is 5 octets, the MIB object dot11WEPDefaultKeyValue.1 (WEP key 0) is populated with

this object value, otherwise an error 'inconsistentValue' is reported.

If cabhPsDev802dot11SecOperMode bit wep128 is set to '1' and this object value length is 13 octets, the MIB object dot11WEPDefaultKeyValue.1 (WEP key 0) is populated with this object value, otherwise an error 'inconsistentValue' is reported.

Vector examples for wep64 and wep128 key derivation:

Note:

% refers to the module operation (remainder of the quotient of i and 4); XOR is the OR exclusive boolean operation.

For wep64:

passphrase:

'ABCD4321' ( hex code 0x41.42.43.44.34.33.32.31 )

First loop: (octets 0..3)

XOR (0x00,A) -> XOR(0x00,0x41) -> 0x41  
 XOR (0x00,B) -> XOR(0x00,0x42) -> 0x42  
 XOR (0x00,C) -> XOR(0x00,0x43) -> 0x43  
 XOR (0x00,D) -> XOR(0x00,0x44) -> 0x44

Second loop: (octets 4..7)

XOR (A,4) -> XOR(0x41,0x34) -> 0x75  
 XOR (B,3) -> XOR(0x42,0x33) -> 0x71  
 XOR (C,2) -> XOR(0x43,0x32) -> 0x71  
 XOR (D,1) -> XOR(0x44,0x31) -> 0x75

initial seed 0x75717175 -> 1970368885

DefaultKeys calculation

key1

seed : 0x16545E64 -> 2nd MSB byte : 0x54  
 seed : 0x41681397 -> 2nd MSB byte : 0x68  
 seed : 0x1BE77FFE -> 2nd MSB byte : 0xE7  
 seed : 0xAA6996C9 -> 2nd MSB byte : 0x69  
 seed : 0xD1523E68 -> 2nd MSB byte : 0x52  
 dot11WEPDefaultKeyValue.1 = 0x5468E76952

key2

seed : 0x1FFB838B -> 2nd MSB byte : 0xFb  
 seed : 0xF9C60022 -> 2nd MSB byte : 0xC6  
 seed : 0xAB43A65D -> 2nd MSB byte : 0x43  
 seed : 0xE9A35FAC -> 2nd MSB byte : 0xA3  
 seed : 0xE7AA2FBF -> 2nd MSB byte : 0xAA  
 dot11WEPDefaultKeyValue.2 = 0xFBC643A3AA

key3

seed : 0x6D13CB86 -> 2nd MSB byte : 0x13  
 seed : 0x5D8CD431 -> 2nd MSB byte : 0x8C  
 seed : 0xCC702630 -> 2nd MSB byte : 0x70  
 seed : 0xD78AEC33 -> 2nd MSB byte : 0x8A  
 seed : 0x24DC662A -> 2nd MSB byte : 0xDC  
 dot11WEPDefaultKeyValue.3 = 0x138C708ADC

key4

seed : 0x4F329445 -> 2nd MSB byte : 0x32

```

seed : 0x3EC035F4 -> 2nd MSB byte : 0xC0
seed : 0xF416CCE7 -> 2nd MSB byte : 0x16
seed : 0x9904940E -> 2nd MSB byte : 0x04
seed : 0x28969A99 -> 2nd MSB byte : 0x96
dot11WEPDefaultKeyValue.4 = 0x32C0160496

```

For wep128:

passphrase:

```
'ABCD4321' ( hex code 0x41.42.43.44.34.33.32.31 )
```

128-bit MD-5 digest 0xFECBACF05B42F7A138A5F3928E

```
dot11WEPDefaultKeyValue.1..4 = 0xFECBACF05B42F7A138A5"
```

```
::= { cabhPsDev802dot11SecEntry 3 }
```

cabhPsDev802dot11SecUsePassPhraseToWEPKeyAlg OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"When this object value is true(1) the WEP Pass Phrase to key mechanism described in

cabhPsDev802dot11SecPassPhraseToWEPKey applies. When this

object is set to false(2) the Pass Phrase to WEP Key

mechanism is ignored and the password is used as WEP key

to populate the MIB object keydot11WEPDefaultKeyValue

object as indicated in

cabhPsDev802dot11SecPassPhraseToWEPKey description."

DEFVAL { true }

```
::= { cabhPsDev802dot11SecEntry 4 }
```

cabhPsDev802dot11SecPSKPassPhraseToKey OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(8..63))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Password used for PS to derive WPA PSK encryption key.

After a successful set, the values of

cabhPsDev802dot11SecWPAPreSharedKey is updated as described

below:

For wpaPSK:

If cabhPsDev802dot11SecOperMode wpaPSK bit is set to '1'

the value of cabhPsDev802dot11SecWPAPreSharedKey is updated

with the Password Base Key Derivation Function from the

Password-based Cryptographic Specification PKCS #5 v2.0

RFC 2898 (PBKDF2) with the following specific parameters:

```
PSK = PBKDF2(PassPhrase, ssid, ssidLength, 4096, 256)
```

PassPhrase is the value of this object

ssid is the PS SSID value used as the function salt

ssidLength is the number of octets of ssid

the iterations count is 4096 and the key generation length

is 256 bits (32 octets).

This object value is normally read by issuing SNMP request

PDUs. This object can be cleared with an SNMP SET to an

empty string Value and the PS MUST not update the type of

keys being set to '1' in cabhPsDev802dot11SecOperMode.

Vector examples for wpaPSK:

for wpaPSK:

passphrase:

```
'ABCD4321' ( hex code 0x41.42.43.44.34.33.32.31 )
```

```

        SSID: 'ABCD4321' ( hex code 0x41.42.43.44.34.33.32.31 )

        256 bit PBKDF2('ABCD4321', 'ABCD4321', 8, 4096, 32)
        cabhPsDev802dot11SecWPAPreSharedKey =
        0x7C199CF2FEF9AF206C8EE0E9703920C2
        3517068B3F96B011E0F975C9131BDB58"
 ::= { cabhPsDev802dot11SecEntry 5 }

cabhPsDev802dot11SecWPAPreSharedKey OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0|32))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The Pre-shared key used for the PS when the bit 'wpaPSK'
        is set to '1'. This object can be set directly or derived
        from the password phrase set in
        cabhPsDev802dot11SecPSKPassPhraseToKey. This object is
        meaningful when the bit wpaPSK is set to '1'.

        If the value of this object is the zero-length string, the
        PS must not activate the PSK security mechanism."
    DEFVAL { 'h' }
 ::= { cabhPsDev802dot11SecEntry 6 }

cabhPsDev802dot11SecWPAREkeyTime OBJECT-TYPE
    SYNTAX      Unsigned32 (1..4294967295)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Time interval to initiate WPA Group Keys (GTK) updates."
    DEFVAL { 86400 }
 ::= { cabhPsDev802dot11SecEntry 7 }

cabhPsDev802dot11SecControl OBJECT-TYPE
    SYNTAX      INTEGER {
        restoreConfig(1),
        commitConfig(2)
        }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The control for the indexed 80211 device configuration.
        All changes to the cabhPsDev802dot11SecEntry MIB objects
        are reflected when reading the value of the MIB objects;
        however, those changes are NOT applied to the running
        configuration of the indexed 80211 device until they are
        successfully committed via use of the
        cabhPsDev802dot11SecControl object.

        If changes are made to the cabhPsDev802dot11SecEntry MIB
        objects which are not yet successfully committed to the
        indexed 80211 device, the cabhPsDev802dot11SecControl
        object can be used to rollback all changes to the last
        valid 80211 device configuration and discard all
        intermediate changes.

        restoreConfig - Setting cabhPsDev802dot11SecControl to this
        value will cause any changes to the
        cabhPsDev802dot11SecEntry objects not yet committed be
        reset to the values from the current running
        configuration of the indexed 80211 device.

```

```

        commitConfig - Setting cabhPsDev802dot11SecControl to this
        value will cause the indexed 80211 device to validate and
        apply the valid cabhPsDev802dot11SecEntry MIB settings to
        its running configuration. The
        cabhPsDev802dot11SecCommitStatus object will detail the
        status of this operation."
DEFVAL { restoreConfig }
 ::= { cabhPsDev802dot11SecEntry 8 }

cabhPsDev802dot11SecCommitStatus OBJECT-TYPE
    SYNTAX INTEGER {
        commitSucceeded(1),
        commitNeeded(2),
        commitFailed(3)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Indicates the status of committing the current
        cabhPsDev802dot11SecEntry MIB object values to the running
        configuration of the indexed 80211 device.

        commitSucceeded - indicates the current
        cabhPsDev802dot11SecEntry MIB object values are valid and
        have been successfully committed to the running
        configuration of the indexed 80211 device.

        commitNeeded - indicates that the value of one or more
        objects in cabhPsDev802dot11SecEntry MIB group have been
        changed but not yet committed to the running configuration
        of the indexed 80211 device.

        commitFailed - indicates the PS was unable to commit the
        cabhPsDev802dot11SecEntry MIB object values to the running
        configuration of the indexed 80211 device due to conflicts
        in those values."
    DEFVAL { commitSucceeded }
    ::= { cabhPsDev802dot11SecEntry 9 }

-- =====
--
-- UPNP Services
-- Contains CableHome Portal Server UPNP information of LAN hosts
--
-- =====

cabhPsDevUpnpEnabled OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to false(1) disable PS UPNP
        services and UPNP MIB objects related functionality.
        When this object reports 'false' any set to
        UPNP read-write or read-create objects returns error
        'InconsistentValue'. Transitions of this object from
        'true' to 'false' and viceversa does not alter the content
        of persistent MIB objects and may clear dynamically UPNP
        created entries. This object value persists upon system
        reinitialization."
    DEFVAL { true }
    ::= { cabhPsDevUpnpBase 1 }

```

```

cabhPsDevUpnpCommandIpType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The type of InetAddress for cabhPsDevUpnpCommandIp."
    DEFVAL { ipv4 }
    ::= { cabhPsDevUpnpCommands 1 }

cabhPsDevUpnpCommandIp OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The IP address Of the device for which the UPnP
        information is being requested. This may be a an IPv4 or
        IPv6 prefix. When quering specific information about the
        PS itself the PS router IP address 192.168.0.1
        should be specified ."
    DEFVAL { 'COA80001'h } -- 192.168.0.1
    ::= { cabhPsDevUpnpCommands 2 }

cabhPsDevUpnpCommand OBJECT-TYPE
    SYNTAX      INTEGER {
        discoveryInfo(1),
        qosDeviceCapabilities(2),
        qosDeviceState(3)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The type of information to be retrieved from the Upnp
        Devices in the LAN side and stored in
        cabhPsDevUpnpInfoTable.
        The following selections are supported:

        - discoveryInfo :
        PS retrieve the Discovery information of UPnP devices.
        If the Ip address specified in
        cabhPsDevUpnpCommandIp is 255.255.255.255
        the PS executes an M-search command and then
        retrieve the discovery information of the
        responding devices. The data stored in
        cabhPsDevUpnpInfoTable also contain UPnP
        discovery data of the PS itself.

        - qosDeviceCapabilities:
        This command is executed for unicast address only
        and will trigger the PS to retrieve the QOS device
        information pertain QOS capabilities.

        - qosDeviceState:
        This command is executed for unicast address only
        and will trigger the PS to retrieve the QOS device
        information pertain QOS Device state."
    DEFVAL { discoveryInfo }
    ::= { cabhPsDevUpnpCommands 3 }

cabhPsDevUpnpCommandUpdate OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION

```

```

        "If set to 'true' triggers the execution of the command
        indicated in cabhPsDevUpnpCommand for the host(s) in
        cabhPsDevUpnpCommandIp. Setting to true this object will
        return error 'wrongValie if host IP corresponds to
        255.255.255.255 and cabhPsDevUpnpCommand value is not
        'discoveryInfo'. Reading this value always return 'false'."
 ::= { cabhPsDevUpnpCommands 4 }

cabhPsDevUpnpLastCommandUpdate OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The sysUpTime value of the last time the object
        cabhPsDevUpnpLastCommandUpdate was set to 'true'."
 ::= { cabhPsDevUpnpCommands 5 }

cabhPsDevUpnpCommandStatus OBJECT-TYPE
    SYNTAX      INTEGER {
        none(1),
        inProgress(2),
        complete(3),
        failed(4)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The status of cabhPsDevUpnpCommandUpdate trigger
        none(1)
        initial state.
        inProgress(2)
        the information is being acquired by the
        device, PS does not change from'inProgress
        to the final state (complete, failed)
        until the execution has finished.
        complete(3) The overall execution is finished with
        no error conditions..
        failed(4).
        The UPnP Device has experienced a timeout. In the
        case of multiple devices query
        (cabhPsDevUpnpCommand set to 'discoveryInfo')
        The failed devices are stored with content information
        empty. At system initialization this object returns
        'none'."
    DEFVAL { none }
 ::= { cabhPsDevUpnpCommands 6 }

cabhPsDevUpnpInfoTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF CabhPsDevUpnpInfoEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains QOS related information of LAN
        UPnP devices or thePS itself."
 ::= { cabhPsDevUpnpCommands 7 }

cabhPsDevUpnpInfoEntry OBJECT-TYPE
    SYNTAX      CabhPsDevUpnpInfoEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The Indexes for this entries
        Entries are created after setting to 'true' the

```

```

        value of cabhPsDevUpnpCommand."
INDEX { cabhPsDevUpnpInfoIpType, cabhPsDevUpnpInfoIp,
        cabhPsDevUpnpInfoXmlFragmentIndex }
 ::= { cabhPsDevUpnpInfoTable 1 }

CabhPsDevUpnpInfoEntry ::= SEQUENCE {
    cabhPsDevUpnpInfoIpType      InetAddressType,
    cabhPsDevUpnpInfoIp          InetAddress,
    cabhPsDevUpnpInfoXmlFragmentIndex Unsigned32,
    cabhPsDevUpnpInfoXmlFragment OCTET STRING
}

cabhPsDevUpnpInfoIpType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The type of InetAddress for cabhPsDevUpnpInfoIp."
    ::= { cabhPsDevUpnpInfoEntry 1 }

cabhPsDevUpnpInfoIp OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The IP address Of the device for which the UPnP
        information is being stored. This may be a DNS name
        (LAN Host name), an IPv4 or IPv6 prefix. Information
        pertaining to the PS itself is indicated by the PS
        well-known LAN IP address interface 192.168.0.1."
    ::= { cabhPsDevUpnpInfoEntry 2 }

cabhPsDevUpnpInfoXmlFragmentIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..4294967295)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index of the sequence of entries of
        cabhPsDevUpnpInfoXmlFragment for an specific
        cabhPsDevUpnpInfoIp IP address starting with '1'."
    ::= { cabhPsDevUpnpInfoEntry 3 }

cabhPsDevUpnpInfoXmlFragment OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..400))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The UPnP Device information being requested by
        cabhPsDevUpnpCommand for the IP addresses specified
        in cabhPsDevUpnpInfoIp for LAN host(s). If the
        information is greater than 400 bytes
        cabhPsDevUpnpInfoXmlFragmentIndex indicates the
        sequence of the consecutive portions per host identified in
        the table."
    ::= { cabhPsDevUpnpInfoEntry 4 }

--

cabhPsNotification      OBJECT IDENTIFIER ::= { cabhPsDevMib 2 }
cabhPsDevNotifications  OBJECT IDENTIFIER ::= { cabhPsNotification 0 }
cabhPsConformance       OBJECT IDENTIFIER ::= { cabhPsDevMib 3 }
cabhPsCompliances       OBJECT IDENTIFIER ::= { cabhPsConformance 1 }
cabhPsGroups            OBJECT IDENTIFIER ::= { cabhPsConformance 2 }

```

```

--
-- Notification Group
--

cabhPsDevInitTLVUnknownTrap NOTIFICATION-TYPE
  OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
  }
  STATUS current
  DESCRIPTION
    "Event due to detection of unknown TLV during the TLV
    parsing process. The values of docsDevEvLevel, docsDevId,
    and docsDevEvText are from the entry which logs this event
    in the docsDevEventTable. The value of
    cabhPsDevWanManMacAddress indicates the WAN-Man MAC address
    of the PS. This part of the information is uniform across
    all PS Traps."
  ::= { cabhPsDevNotifications 1 }

cabhPsDevInitTrap NOTIFICATION-TYPE
  OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    cabhPsDevProvConfigFile,
    cabhPsDevProvConfigTLVProcessed,
    cabhPsDevProvConfigTLVRejected
  }
  STATUS current
  DESCRIPTION
    "This inform is issued to confirm the successful completion
    of the CableHome provisioning process."
  ::= { cabhPsDevNotifications 2 }

cabhPsDevInitRetryTrap NOTIFICATION-TYPE
  OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
  }
  STATUS current
  DESCRIPTION
    "An event to report a failure happened during the
    initialization process and was detected in the PS."
  ::= { cabhPsDevNotifications 3 }

cabhPsDevDHCPFailTrap NOTIFICATION-TYPE
  OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    cabhCdpServerDhcpAddress
  }
  STATUS current
  DESCRIPTION
    "An event to report the failure of a DHCP server. The

```

```
        value of cabhCdpServerDhcpAddress is the IP address of
        the DHCP server."
 ::= { cabhPsDevNotifications 4 }

cabhPsDevSwUpgradeInitTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    docsDevSwFilename,
    docsDevSwServer
}
STATUS      current
DESCRIPTION
    "An event to report a software upgrade initiated event.
    The values of docsDevSwFilename, and docsDevSwServer
    indicate the software image name and the IP address of the
    server from which the image was downloaded."
 ::= { cabhPsDevNotifications 5 }

cabhPsDevSwUpgradeFailTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    docsDevSwFilename,
    docsDevSwServer
}
STATUS      current
DESCRIPTION
    "An event to report the failure of a software upgrade
    attempt. The values of docsDevSwFilename, and
    docsDevSwServer indicate the software image name and the IP
    address of the server from which the image was downloaded."
 ::= { cabhPsDevNotifications 6 }

cabhPsDevSwUpgradeSuccessTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    docsDevSwFilename,
    docsDevSwServer
}
STATUS      current
DESCRIPTION
    "An event to report the Software upgrade success event.
    The values of docsDevSwFilename, and docsDevSwServer
    indicate the software image name and the IP address of the
    server from which the image was downloaded."
 ::= { cabhPsDevNotifications 7 }

cabhPsDevSwUpgradeCVCFailTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
}
STATUS      current
```

```

DESCRIPTION
    "An event to report the failure of the verification of code
    file happened during a secure software upgrade attempt."
 ::= { cabhPsDevNotifications 8 }

cabhPsDevTODFailTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevTimeServerAddr,
    cabhPsDevWanManMacAddress
}
STATUS      current
DESCRIPTION
    "An event to report the failure of a time of day server.
    The value of cabhPsDevTimeServerAddr indicates the server
    IP address."
 ::= { cabhPsDevNotifications 9 }

cabhPsDevCdpWanDataIpTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhCdpWanDataAddrClientId,
    cabhPsDevWanManMacAddress
}
STATUS      current
DESCRIPTION
    "An event to report the failure of PS to obtain all
    needed WAN-Data Ip Addresses.
    cabhCdpWanDataAddrClientId indicates the ClientId for
    which the failure occurred."
 ::= { cabhPsDevNotifications 10 }

cabhPsDevCdpThresholdTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    cabhCdpLanTransThreshold
}
STATUS      current
DESCRIPTION
    "An event to report that the LAN-Trans address assignment
    threshold has been exceeded."
 ::= { cabhPsDevNotifications 11 }

cabhPsDevCspTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
}
STATUS      current
DESCRIPTION
    "To report an event with the CableHome Security Portal."
 ::= { cabhPsDevNotifications 12 }

cabhPsDevCapTrap NOTIFICATION-TYPE

```

```
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
}
STATUS      current
DESCRIPTION
    "To report an event with the CableHome Address Portal."
 ::= { cabhPsDevNotifications 13 }

cabhPsDevCtpTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
}
STATUS      current
DESCRIPTION
    "To report an event with the CableHome Test Portal."
 ::= { cabhPsDevNotifications 14 }

cabhPsDevProvEnrollTrap NOTIFICATION-TYPE
OBJECTS {
    cabhPsDevHardwareVersion,
    docsDevSwCurrentVers,
    cabhPsDevTypeIdentifier,
    cabhPsDevWanManMacAddress
}
STATUS      current
DESCRIPTION
    "This notification is issued to initiate the CableHome
    provisioning process for SNMP Provisioning Mode."
REFERENCE
    "CableHome 1.1 Specification,
    13.4 Provisioning the PS for Management:
    SNMP Provisioning Mode."
 ::= { cabhPsDevNotifications 15 }

cabhPsDevCdpLanIpPoolTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress,
    cabhCdpLanTransCurCount
}
STATUS      current
DESCRIPTION
    "An event to report that the pool of IP addresses for LAN
    clients, as defined by cabh CdpLanPoolStart and
    cabhCdpLanPoolEnd, is exhausted."
 ::= { cabhPsDevNotifications 16 }

cabhPsDevUpnpMultiplePHTrap NOTIFICATION-TYPE
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhQos2NumActivePolicyHolder,
    cabhQos2PolicyHolderEnabled,
    cabhQos2PolicyAdmissionControl
}
```

```

}
STATUS      current
DESCRIPTION
    "To report that more than one active UPnP Policy Holders
    have been detected.
    This notification is triggered in the case the PS
    has cabhPsDevUpnpEnabled true."
 ::= { cabhPsDevNotifications 17 }

-- compliance statements

cabhPsBasicCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for devices that implement the
        CableHome Portal Services logical element."
    MODULE      -- cabhPsMib

-- unconditionally mandatory groups

MANDATORY-GROUPS {
    cabhPsDevBaseGroup,
    cabhPsDevProvGroup,
    cabhPsNotificationGroup,
    cabhPsDevAttribGroup,
    cabhPsDevStatsGroup,
    cabhPsDevAccessControlGroup,
    cabhPsDevUpnpGroup
}

-- conditionally mandatory groups

GROUP cabhPsDev802dot11Group
    DESCRIPTION
        "This group is implemented only if PS
        supports interfaces of ifType ieee80211(71)."
```

```

GROUP cabhPsDevUIGroup
    DESCRIPTION
        "This group is implemented only in CableHome compliant
        residential gateways that implement a User Interface (UI)."
```

```

OBJECT cabhPsDevTimeServerAddrType
    SYNTAX      InetAddressType { ipv4(1) }
    DESCRIPTION
        "An implementation is only required to support IPv4
        addresses. "
```

```

OBJECT cabhPsDevTimeServerAddr
    SYNTAX      InetAddress (SIZE(4))
    DESCRIPTION
        "An implementation is only required to support IPv4
        addresses."
```

```

OBJECT cabhPsDevLanIpTrafficInetAddress
    SYNTAX      InetAddress (SIZE(4))
    DESCRIPTION
        "An implementation is only required to support IPv4
        addresses."
```

```

OBJECT cabhPsDevUpnpCommandIpType
    SYNTAX      InetAddressType { ipv4(1) }
    DESCRIPTION
```

"An implementation is only required to support IPv4 addresses."

```
OBJECT cabhPsDevUpnpCommandIp
SYNTAX      InetAddress (SIZE(4))
DESCRIPTION
    "An implementation is only required to support IPv4
    addresses."
```

```
OBJECT cabhPsDevUpnpInfoIpType
SYNTAX      InetAddressType { ipv4(1) }
DESCRIPTION
    "An implementation is only required to support IPv4
    addresses. "
```

```
OBJECT cabhPsDevUpnpInfoIp
SYNTAX      InetAddress (SIZE(4))
DESCRIPTION
    "An implementation is only required to support IPv4
    addresses."
```

```
::= { cabhPsCompliances 1 }
```

```
cabhPsDeprecatedCompliance MODULE-COMPLIANCE
STATUS      deprecated
DESCRIPTION
    "The compliance statement for deprecated MIB objects."
MODULE     -- cabhPsMib
```

-- deprecated groups

```
GROUP cabhPsDevDeprecatedGroup
DESCRIPTION
    "Group containing deprecated MIB objects."
::= { cabhPsCompliances 2 }
```

```
cabhPsObsoleteCompliance MODULE-COMPLIANCE
STATUS      obsolete
DESCRIPTION
    "The compliance statement for obsolete MIB objects."
MODULE     -- cabhPsMib
```

```
GROUP cabhPsDevObsoleteGroup
DESCRIPTION
    "Group containing obsolete MIB objects."

::= { cabhPsCompliances 3 }
```

```
cabhPsDevBaseGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevDateTime,
    cabhPsDevResetNow,
    cabhPsDevSerialNumber,
    cabhPsDevHardwareVersion,
    cabhPsDevWanManMacAddress,
    cabhPsDevWanDataMacAddress,
    cabhPsDevTypeIdentifier,
    cabhPsDevSetToFactory,
    cabhPsDevTodSyncStatus,
    cabhPsDevProvMode,
    cabhPsDevLastSetToFactory,
    cabhPsDevTrapControl
```

```

}
STATUS      current
DESCRIPTION
    "A collection of objects for providing device status and
    control."
 ::= { cabhPsGroups 1 }

cabhPsDevProvGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevProvisioningTimer,
    cabhPsDevProvConfigFile,
    cabhPsDevProvConfigHash,
    cabhPsDevProvConfigFileSize,
    cabhPsDevProvConfigFileStatus,
    cabhPsDevProvConfigTLVProcessed,
    cabhPsDevProvConfigTLVRejected,
    cabhPsDevProvSolicitedKeyTimeout,
    cabhPsDevProvState,
    cabhPsDevProvAuthState,
    cabhPsDevTimeServerAddrType,
    cabhPsDevTimeServerAddr
}
STATUS      current
DESCRIPTION
    "A collection of objects for controlling and providing
    status on provisioning."
 ::= { cabhPsGroups 2 }

cabhPsDevAttribGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevPsDeviceType,
    cabhPsDevPsManufacturerUrl,
    cabhPsDevPsModelUrl,
    cabhPsDevPsModelUpc
}
STATUS      current
DESCRIPTION
    "A collection of objects for providing information on
    LAN IP devices known to the PS."
 ::= { cabhPsGroups 3 }

cabhPsDevStatsGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevLanIpTrafficCountersReset,
    cabhPsDevLanIpTrafficCountersLastReset,
    cabhPsDevLanIpTrafficEnabled,
    cabhPsDevLanIpTrafficInetAddressType,
    cabhPsDevLanIpTrafficInetAddress,
    cabhPsDevLanIpTrafficInOctets,
    cabhPsDevLanIpTrafficOutOctets
}
STATUS      current
DESCRIPTION
    "A collection of objects for providing information
    on LAN IP traffic."
 ::= { cabhPsGroups 4 }

cabhPsDevDeprecatedGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevWanManClientId,
    cabhPsDevProvCorrelationId
}
STATUS      deprecated

```

```
DESCRIPTION
    "Group of deprecated PSDev MIB objects."
 ::= { cabhPsGroups 5 }

cabhPsNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    cabhPsDevInitTLVUnknownTrap,
    cabhPsDevInitTrap,
    cabhPsDevInitRetryTrap,
    cabhPsDevDHCPFailTrap,
    cabhPsDevSwUpgradeInitTrap,
    cabhPsDevSwUpgradeFailTrap,
    cabhPsDevSwUpgradeSuccessTrap,
    cabhPsDevSwUpgradeCVCFailTrap,
    cabhPsDevTODFailTrap,
    cabhPsDevCdpWanDataIpTrap,
    cabhPsDevCdpThresholdTrap,
    cabhPsDevCspTrap,
    cabhPsDevCapTrap,
    cabhPsDevCtpTrap,
    cabhPsDevProvEnrollTrap,
    cabhPsDevCdpLanIpPoolTrap,
    cabhPsDevUpnpMultiplePHTrap
}
STATUS          current
DESCRIPTION
    "These notifications indicate change in status of the
    Portal Services set of functions in a device complying
    with CableLabs CableHome(tm) specifications."
 ::= { cabhPsGroups 6 }

cabhPsDevAccessControlGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevAccessControlEnable,
    cabhPsDevAccessControlPhysAddr,
    cabhPsDevAccessControlRowStatus
}
STATUS          current
DESCRIPTION
    "Group of Access Control objects for the CableHome PSDev
    MIB."
 ::= { cabhPsGroups 7 }

cabhPsDevUIGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevUILogin,
    cabhPsDevUIPassword,
    cabhPsDevUISelection,
    cabhPsDevUIServerUrl,
    cabhPsDevUISelectionDisabledBodyText
}
STATUS          current
DESCRIPTION
    "A collection of objects for configuring the selection and
    operation of the User Interface displayed to an HTTP
    client, if a UI is implemented."
 ::= { cabhPsGroups 8 }

cabhPsDev802dot11Group OBJECT-GROUP
OBJECTS {
    cabhPsDev802dot11BaseSetToDefault,
    cabhPsDev802dot11BaseLastSetToDefault,
    cabhPsDev802dot11BaseAdvertiseSSID,
```

```

        cabhPsDev802dot11BasePhyCapabilities,
        cabhPsDev802dot11BasePhyOperMode,
        cabhPsDev802dot11SecCapabilities,
        cabhPsDev802dot11SecOperMode,
        cabhPsDev802dot11SecPassPhraseToWEPKey,
        cabhPsDev802dot11SecUsePassPhraseToWEPKeyAlg,
        cabhPsDev802dot11SecPSKPassPhraseToKey,
        cabhPsDev802dot11SecWPAPreSharedKey,
        cabhPsDev802dot11SecWPAREkeyTime,
        cabhPsDev802dot11SecControl,
        cabhPsDev802dot11SecCommitStatus
    }
STATUS      current
DESCRIPTION
    "Group of CableHome proprietary objects for the
    management of IEEE 80211 interfaces."
 ::= { cabhPsGroups 9 }

cabhPsDevUpnpGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevUpnpEnabled,
    cabhPsDevUpnpCommandIpType,
    cabhPsDevUpnpCommandIp,
    cabhPsDevUpnpCommand,
    cabhPsDevUpnpCommandUpdate,
    cabhPsDevUpnpLastCommandUpdate,
    cabhPsDevUpnpCommandStatus,
    cabhPsDevUpnpInfoXmlFragment
}
STATUS      current
DESCRIPTION
    "Group of MIB objects for the
    management interface of UPnP Services."
 ::= { cabhPsGroups 10 }

cabhPsDevObsoleteGroup OBJECT-GROUP
OBJECTS {
    cabhPsDevBpDeviceType,
    cabhPsDevBpManufacturer,
    cabhPsDevBpManufacturerUrl,
    cabhPsDevBpSerialNumber,
    cabhPsDevBpHardwareVersion,
    cabhPsDevBpHardwareOptions,
    cabhPsDevBpModelName,
    cabhPsDevBpModelNumber,
    cabhPsDevBpModelUrl,
    cabhPsDevBpModelUpc,
    cabhPsDevBpModelSoftwareOs,
    cabhPsDevBpModelSoftwareVersion,
    cabhPsDevBpLanInterfaceType,
    cabhPsDevBpNumberInterfacePriorities,
    cabhPsDevBpPhysicalLocation,
    cabhPsDevBpPhysicalAddress
}
STATUS      obsolete
DESCRIPTION
    "Group of BP related objects with obsoleted status."
 ::= { cabhPsGroups 11 }

END

```

## 5 ACKNOWLEDGEMENTS

The following contributors deserve genuine gratitude for their efforts in the development of the PSDEV MIB specification.

Roy Spitzer, Consultant to CableLabs  
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Rick Vetter, Consultant to CableLabs

## Appendix I Revision History

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I02-020920:

ECN Number	ECN Date	Summary
CH1-N-02003	8/15/02	There is currently no event defined for reporting the exhaustion of addresses from the CDS pool.
CH1-N-02008	6/20/02	Correct single dash in the LAST-UPDATED line of the MODULE-IDENTITY. Clarify the description for cabhPsDevResetNow object. Rename cabhPsDevResetDefaults to cabhPsDevSetToFactory to be consistent with other CableHome MIBs. Clarify the description for cabhPsDevProvMode object.
CH1-N-02018	8/15/02	Define CableHome acronyms. Correct cabhPsGroup OID numbering: should be the first, not the third, leaf on the cabhPsCompliances branch. Change SYNTAX from DisplayString to SnmpAdminString. Change 'headend DHCP server' reference in DESCRIPTION for cabhPsDevWanManMacAddress to 'cable data network DHCP server'. Correct grammatical error in the description for cabhPsDevWanDataMacAddress. Correct the grammatical/typographical error in the description for cabhPsDevProvConfigHash.

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I03-030411:

ECN Number	ECN Date	Summary
CH1-N-02041	1/23/03	Add cabhCdpLanTransCurCount to list of OIDs to IMPORT from CDP MIB.
CH1-N-02046	1/23/03	Change the STATUS of the cabhPsDevWanManClientId object from "current" to "deprecated".
CH1-N-02050	1/23/03	cabhSecFwPolicyFileHash and cabhPsDevProvConfigHash are defined as 20 octet should return binary values.
CH1-N-02065	1/23/03	Align the PSDev MIB with draft-jones-cable-gateway-device-MIB-00.txt and add new option for Dormant CableHome mode.

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I04-030801:

ECN Number	ECN Date	Summary
CH1-N-03007	04/17/03	Update PSDev MIB to incorporate CableHome 1.1 objects and conformance statements.
CH-MIB-N-03054	07/03/03	Update PSDev MIB to incorporate changes needed to align the CableLabs version with the version submitted to the IETF.

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I05-040129:

ECN Number	ECN Date	Summary
CH-MIB-N-03083	11/06/03	Correct the name of the deprecated group of objects.
MIB-PSDEV-N-03.0102-1	12/04/03	Remove references to the CableHome 1.0 specification.

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I06-040806

ECN Number	ECN Date	Summary
MIB-PSDEV-N-04.0170-2	8/5/04	Corrects cabhPsDevAccessControlPhysAddr object definition
MIB-PSDEV-N-04.0139-2	5/13/04	Define User Interface control parameters and define PSDev Access Control Table
MIB-PSDEV-N-04.0138-10	7/22/04	MIB Requirements for wireless 80211b

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I07-041216

ECN Number	ECN Date	Summary
MIB-PSDEV-N-04.0184-1	11/11/04	Changes to wireless 80211b MIB for synchronization
MIB-PSDEV-N-04.0176-1	10/7/04	Define new objects to support Time of Day Offset configuration
MIB-PSDEV-N-04.0171-5	10/7/04	CH1.1 Access Table Exception for Ethernet and USB Interfaces

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I08-050211

ECN Number	ECN Date	Summary
MIB-PSDEV-N-04.0190-3	1/13/05	Requirements for UPnP support

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDEV-I09-050408

<b>ECN Number</b>	<b>ECN Date</b>	<b>Summary</b>
MIB-PSDEV-N-04.0202-2	12/22/2004	Access Control Table

The following Engineering Change Notice was incorporated into CH-SP-MIB-PSDEV-I10-060407

<b>ECN Number</b>	<b>ECN Date</b>	<b>Summary</b>
MIB-PSDEV-N-06.0247-1	3/2/2006	Clarification of DEFVAL for cabhPsDevTrapControl

The following Engineering Change Notice was incorporated into CH-SP-MIB-PSDEV-C01-060728

<b>ECN Number</b>	<b>ECN Date</b>	<b>Summary</b>
MIB-PSDEV-N-06.0258-1	6/8/2006	Update CableHome PSDEV MIB contact information