

Superseded

CableHome PSDEV MIB Specification

CH-SP-MIB-PSDEV-I07-041216

Issued

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- 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.
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Contents

1	SCOPE	1
2	REFERENCES	1
	2.1 Normative References	1
	2.2 Reference Acquisition	1
3	ACRONYMS	1
4	REQUIREMENTS	2
5	ACKNOWLEDGEMENTS	35
	APPENDIX I REVISION HISTORY	36

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1 SCOPE

This specification describes CableHome Portal Services Environment (PSDEV) requirements.

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-I05-030801, August 1, 2003.
- [2] CableHome 1.1 Specification, CH-SP-CH1.1-I06-041216, December 16, 2004
- [3] CableLabs® Definition MIB Specification, CL-SP-MIB-CLABDEF-I04-040804, August 4, 2004.

2.2 Reference Acquisition

CableLabs Specifications:

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

3 ACRONYMS

This specification uses the following acronyms:

CAP	CableHome Addressing Portal
CDC	CableHome DHCP Client (component of CDP)
CDP	CableHome DHCP Portal
CDS	CableHome DHCP Server (component of CDP)
CMP	CableHome Management Portal
CTP	CableHome Test Portal
DHCP	Dynamic Host Configuration Protocol
NAPT	Network Address and Port Translation
NAT	Network Address Translation
PS	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,
    NOTIFICATION-TYPE          FROM SNMPv2-SMI

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

    SntpAdminString           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

    clabProjCableHome        FROM CLAB-DEF-MIB;

cabhPsDevMib MODULE-IDENTITY

    LAST-UPDATED      "200412160000Z" -- December 16, 2004
    ORGANIZATION      "CableLabs Broadband Access Department"
    CONTACT-INFO
        "Kevin Luehrs
        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: k.luehrs@cablelabs.com; 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.
    Most the PS Device MIB is needed for configuration
    download."
 ::= { 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 }
cabhPsDevPsStats OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 4 }
cabhPsDevAccessControl OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 5 }
cabhPsDevPsMisc OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 6 }
cabhPsDevPsUI OBJECT IDENTIFIER ::= { cabhPsDevPsMisc 1 }
cabhPsDevPs802dot11 OBJECT IDENTIFIER ::= { cabhPsDevPsMisc 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)."

```

```

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 }

cabhPsDevTypeIdIdentifier 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 }

--
-- 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 current
    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 current
    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      current
    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      current
    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      current
    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      current
    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      current
    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 current
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 current
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 current
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 current
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 current
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      current
    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      current
    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      current
    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      current
    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      current
    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      current
    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      current
    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
    ::= { cabhPsDevPsStats 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."
 ::= { cabhPsDevPsStats 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
 ::= { cabhPsDevPsStats 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."
 ::= { cabhPsDevPsStats 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
-- entire of the Access Control Table.
--
=====
```

cabhPsDevAccessControlEnable OBJECT-TYPE

SYNTAX BITS {
 ieee80211(0),
 homeplug(1)
}

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."

If bit 0 (ieee80211) is set, the PS MUST apply PSDev Access Control Table access rules to any PS interface of IANAifType 71 (radio spread spectrum).

If bit 1 (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)."

```
DEFVAL { 0 } -- 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."
 ::= { cabhPsDevPsUI 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."
 ::= { cabhPsDevPsUI 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 }
 ::= { cabhPsDevPsUI 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 { "" }
 ::= { cabhPsDevPsUI 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>."
 ::= { cabhPsDevPsUI 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."
 ::= { cabhPsDevPs802dot11 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
        cabhPsDevPs802dot11 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."

::= { cabhPsDevPs802dot11 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 a
 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 }

--
--

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 inform 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 cabhCdpLanPoolStart and
    cabhCdpLanPoolEnd, is exhausted."
 ::= { cabhPsDevNotifications 16}

-- 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,
  cabhPsDevPsStatsGroup,
  cabhPsDevAccessControlGroup
}

-- 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)."
```

```

 ::= { 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 }
```

```

cabhPsDevBaseGroup OBJECT-GROUP
  OBJECTS {
    cabhPsDevDateTime,
    cabhPsDevResetNow,
    cabhPsDevSerialNumber,
    cabhPsDevHardwareVersion,
    cabhPsDevWanManMacAddress,
    cabhPsDevWanDataMacAddress,
    cabhPsDevTypeIdentifier,
    cabhPsDevSetToFactory,
    cabhPsDevTodSyncStatus,
    cabhPsDevProvMode,
    cabhPsDevLastSetToFactory
  }
  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,
    cabhPsDevBpDeviceType,
    cabhPsDevBpManufacturer,
    cabhPsDevBpManufacturerUrl,
    cabhPsDevBpSerialNumber,
    cabhPsDevBpHardwareVersion,
    cabhPsDevBpHardwareOptions,
    cabhPsDevBpModelName,
    cabhPsDevBpModelNumber,
    cabhPsDevBpModelUrl,
    cabhPsDevBpModelUpc,
    cabhPsDevBpModelSoftwareOs,
    cabhPsDevBpModelSoftwareVersion,
    cabhPsDevBpLanInterfaceType,
    cabhPsDevBpNumberInterfacePriorities,
    cabhPsDevBpPhysicalLocation,
  }

```

```

        cabhPsDevBpPhysicalAddress
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects for providing information on
        LAN IP devices known to the PS."
    ::= { cabhPsGroups 3 }

cabhPsDevPsStatsGroup 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
    }
    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 }

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