

# Superseded

## CableHome™ PSDEV MIB Specification

**CH-SP-MIB-PSDEV-I01-020405**

**Issued**

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## Document Status Sheet

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### Key to Document Status Codes:

<b>Work in Progress</b>	An incomplete document, designed to guide discussion and generate feedback, which may include several alternative requirements for consideration.
<b>Draft</b>	A document in specification format considered largely complete, but lacking review by Members and vendors. Drafts are susceptible to substantial change during the review process.
<b>Issued</b>	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.
<b>Closed</b>	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

The following reference materials provide information through the reference to this document that provide information of this reference material. The information provided in this document is subject to revision, all of which are encouraged to investigate the possibility of applying the most recent edition of the references listed below.

### 2.1 NORMATIVE REFERENCE

- [1] “CableHome 1.0 Specification,” CH-SP-I01-020405, Cable Television Laboratories, Inc., April 5, 2002. <http://www.CableLabs.com/CableHome>

### 2.2 INFORMATIVE REFERENCE

There are no informative references required for this document.

## 3 ABBREVIATIONS

There are no abbreviations used in this document.

## 4 REQUIREMENTS

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

CABH-PS-DEV-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,  
OBJECT-TYPE,  
Integer32,  
NOTIFICATION-TYPE

FROM SNMPv2-SMI

TruthValue,  
DisplayString,  
PhysAddress,  
DateAndTime,  
TEXTUAL-CONVENTION

FROM SNMPv2-TC

OBJECT-GROUP,  
MODULE-COMPLIANCE,  
NOTIFICATION-GROUP

FROM SNMPv2-CONF

InetAddressType,  
InetAddress,  
InetAddressIPv4,  
InetAddressIPv6

FROM INET-ADDRESS-MIB

docsDevSwCurrentVers,  
docsDevEvLevel,  
docsDevEvid,  
docsDevEvText,  
docsDevSwFilename,  
docsDevSwServer

FROM DOCS-CABLE-DEVICE-MIB -- RFC2669

cabhCdpServerDhcpAddress,  
cabhCdpWanDataAddrClientId,  
cabhCdpLanTransThreshold

FROM CABH-CDP-MIB

clabProjCableHome

FROM CLAB-DEF-MIB;

=====

--

-- History:

--

Date	Modified by	Reason
09/25/01	Roy Spitzer	Initial Version
10/05/01	Roy Spitzer	Incorporated comments from Mike Mannette and NMP team
10/12/01	Roy Spitzer	Incorporated security parameters
12/10/01	Roy Spitzer	Incorporated comments from December 7 2001 review

```

--      12/14/01      Roy Spitzer      Incorporated Comments since December 10, 2001
--      12/17/01      Roy Spitzer      Incorporated Comments since December 14, 2001
--      12/19/01      Roy Spitzer      Incorporated Comments since December 17, 2001
--      12/21/01      Roy Spitzer      Incorporated Comments since December 19, 2001
--      01/07/02      Chris Zacker     Incorporated Specification changes from review
--      01/23/02      Chris Zacker     Incorporate more spec changes
--      03/21/02      Kevin Luehrs    Incorporate changes from CableHome 1.0 D01
--                                     specification vendor review
--      04/05/02                                     Issued

```

## cabhPsDevMib MODULE-IDENTITY

LAST-UPDATED "0203210000Z" – March 21, 2002

ORGANIZATION "CableLabs Broadband Access Department"

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## DESCRIPTION

"This MIB module supplies the basic management objects for the PS Device. The PS device parameter describe general PS Device attributes and behavior characteristics. Most the PS Device MIB is need for configuration download.

## Acknowledgements:

```

Roy Spitzer      -   Consultant to CableLabs
Mike Mannette   -   Consultant to CableLabs
Itay Sherman    -   Texas Instruments
Chris Zacker    -   Broadcom
Rick Vetter     -   Consultant to CableLabs "

```

::= { clabProjCableHome 1 }

## -- Textual conventions

X509Certificate ::= TEXTUAL-CONVENTION

STATUS current

## DESCRIPTION

"An X509 digital certificate encoded as an ASN.1 DER object."

SYNTAX OCTET STRING (SIZE (0..4096))

cabhPsDevMibObjects OBJECT IDENTIFIER ::= { cabhPsDevMib 1 }

cabhPsDevBase OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 1 }

cabhPsDevProv OBJECT IDENTIFIER ::= { cabhPsDevMibObjects 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 device to reset. Reading this object always returns false(2). When cabhPsDevResetNow is set to true, the following actions occur:  
 1. Clear all statistics in PS.  
 2. Clear trace logs.  
 3. Clear all security associations.  
 4. Initialize all configuration parameters: set all CableHome-specified MIB objects back to their default values.  
 5. Delete all address translations  
 6. Delete all FQDN to IP mappings  
 7. Delete all stored ARP translations  
 8. The provisioning flow is started at step PS - 1."  
 ::= { cabhPsDevBase 2 }

## cabhPsDevSerialNumber OBJECT-TYPE

SYNTAX DisplayString (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 DisplayString (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  
 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 headend 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

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The PS WAN-Data MAC address. This 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 DisplayString

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."

```
::= { cabhPsDevBase 7 }
```

**cabhPsDevResetDefaults** OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to True set all PS parameters to the factory defaults"

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

**cabhPsDevWanManClientId** OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..80))

MAX-ACCESS read-write

STATUS current

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"

REFERENCE

" "

DEFVAL { false }

```
::= { cabhPsDevBase 10 }
```

```
cabhPsDevProvMode OBJECT-TYPE
```

```
SYNTAX INTEGER
```

```
{
```

```
    dhcpmode (1),
```

```
    snmpmode (2)
```

```
}
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This object indicates the provisioning mode in which
the PS is operating. If the PS receives PS Configuration
File information (server address and file name) in the DHCP
message issued by the DHCP server in the cable network,
the PS sets this object to DHCPmode(1). If the PS receives
DHCP Option 177 sub-option 51 AND does not receive PS
Configuration File information in the DHCP message the PS
receives from the DHCP server in the cable network, the PS
sets this object to SNMPmode(2). "
```

```
::= { cabhPsDevBase 11 }
```

```
--
```

```
-- 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 DisplayString(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(20))
```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Hash of the contents of the config file, calculated and
sent to the PS prior to sending the config file. For the
```

SHA-1 authentication algorithm the hash length 160 bits."  
 ::= { 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 current

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 }

--
-- notification group is for future extension.
--

cabhPsNotification OBJECT IDENTIFIER ::= { cabhPsDevMib 2 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.
    "
 ::= { cabhPsNotification 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."
 ::= { cabhPsNotification 2 }

cabhPsDevInitRetryTrap NOTIFICATION-TYPE

```

```
OBJECTS {
    docsDevEvLevel,
    docsDevEvId,
    docsDevEvText,
    cabhPsDevWanManMacAddress
}
STATUS current
DESCRIPTION
    "An event to report a failure happened during the initialization process and detected
    in the PS.
    "
::= { cabhPsNotification 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.
    "
::= { cabhPsNotification 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 server IP address the image is from.
    "
::= { cabhPsNotification 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 server IP address the image is from.
    "
::= { cabhPsNotification 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 server IP address the image is from.
    "
::= { cabhPsNotification 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.
    "
::= { cabhPsNotification 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."  
"

::= { cabhPsNotification 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."  
"

::= { cabhPsNotification 10 }

## cabhPsDevCdpThresholdTrap NOTIFICATION-TYPE

OBJECTS {  
docsDevEvLevel,  
docsDevEvId,  
docsDevEvText,  
cabhPsDevWanManMacAddress,  
cabhCdpLanTransThreshold  
}

STATUS current

## DESCRIPTION

"An event to report that the Lan-Trans threshold has been exceeded."

::= { cabhPsNotification 11 }

## cabhPsDevCspTrap NOTIFICATION-TYPE

OBJECTS {  
docsDevEvLevel,  
docsDevEvId,  
docsDevEvText,  
cabhPsDevWanManMacAddress  
}

STATUS current

## DESCRIPTION

"To report an event with the CableHome Security Portal."

::= { cabhPsNotification 12 }

## cabhPsDevCapTrap NOTIFICATION-TYPE

OBJECTS {  
docsDevEvLevel,  
docsDevEvId,  
docsDevEvText,  
cabhPsDevWanManMacAddress  
}

STATUS current

## DESCRIPTION

"To report an event with the CableHome Address Portal."

::= { cabhPsNotification 13 }

## cabhPsDevCtpTrap NOTIFICATION-TYPE

## OBJECTS {

docsDevEvLevel,  
docsDevEvId,  
docsDevEvText,  
cabhPsDevWanManMacAddress

}

STATUS current

## DESCRIPTION

"To report an event with the CableHome Test Portal."

::= { cabhPsNotification 14 }

## cabhPsDevProvEnrollTrap NOTIFICATION-TYPE

## OBJECTS {

cabhPsDevHardwareVersion,  
docsDevSwCurrentVers,  
cabhPsDevTypeIdentifier,  
cabhPsDevWanManMacAddress,  
cabhPsDevProvCorrelationId

}

STATUS current

## DESCRIPTION

"This inform is issued to initiate the CableHome  
process provisioning ."

## REFERENCE

"Inform as defined in RFC 1902"

::= { cabhPsNotification 15 }

-- compliance statements

## cabhPsBasicCompliance MODULE-COMPLIANCE

STATUS current

## DESCRIPTION

"The compliance statement for devices that implement  
PS feature."

MODULE --cabhPsMib

-- unconditionally mandatory groups

## MANDATORY-GROUPS {

cabhPsGroup

}

::= { cabhPsCompliances 3 }

cabhPsGroup OBJECT-GROUP

OBJECTS {

cabhPsDevDateTime,  
 cabhPsDevResetNow,  
 cabhPsDevSerialNumber,  
 cabhPsDevHardwareVersion,  
 cabhPsDevWanManMacAddress,  
 cabhPsDevWanDataMacAddress,  
 cabhPsDevTypeIdentifier,  
 cabhPsDevResetDefaults,  
 cabhPsDevWanManClientId,  
 cabhPsDevTodSyncStatus,  
 cabhPsDevProvMode,

cabhPsDevProvisioningTimer,  
 cabhPsDevProvConfigFile,  
 cabhPsDevProvConfigHash,  
 cabhPsDevProvConfigFileSize,  
 cabhPsDevProvConfigFileStatus,  
 cabhPsDevProvConfigTLVProcessed,  
 cabhPsDevProvConfigTLVRejected,  
 cabhPsDevProvSolicitedKeyTimeout,  
 cabhPsDevProvState,  
 cabhPsDevProvAuthState,  
 cabhPsDevProvCorrelationId,  
 cabhPsDevTimeServerAddrType,  
 cabhPsDevTimeServerAddr

}

STATUS current

DESCRIPTION

"Group of objects for CableHome PS MIB."

::= { cabhPsGroups 1 }

cabhPsNotificationGroup NOTIFICATION-GROUP

NOTIFICATIONS { cabhPsDevInitTLVUnknownTrap, cabhPsDevInitTrap,

cabhPsDevInitRetryTrap,

cabhPsDevDHCPFailTrap, cabhPsDevSwUpgradeInitTrap, cabhPsDevSwUpgradeFailTrap,

cabhPsDevSwUpgradeSuccessTrap, cabhPsDevSwUpgradeCVCFailTrap,

cabhPsDevTODFailTrap,

cabhPsDevCdpWanDataIpTrap, cabhPsDevCdpThresholdTrap, cabhPsDevCspTrap,

cabhPsDevCapTrap, cabhPsDevCtpTrap, cabhPsDevProvEnrollTrap }

STATUS current

DESCRIPTION

"These notifications deal with change in status of

PS Device."

::= { cabhPsGroups 2 }

END

The following Engineering Change Notices were incorporated into CH-SP-MIB-PSDev-I01-020405:

ECN Number	ECN Date	Summary