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Hybrid Fiber/Coax Outside Plant Status Monitoring
SCTE-HMS-COMMON-MIB
Management Information Base (MIB) Definition

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1.

Scope

This document defines common information about NEs. This includes administrative information such as name, ID, model number, serial numbers vendor, and location; health indicators such as status and service state; and functional information such as power level and frequency range.

2.

Copyright

The MIB definition found in this document may be incorporated directly in products without further permission from the copyright owner, SCTE.

3. Normative References

- 3.1. ANSI/SCTE 25-2 Hybrid Fiber Coax Outside Plant Status Monitoring - Media Access Control (MAC) Layer Specification v1.0
- 3.2. ANSI/SCTE 36 (formerly HMS 028), SCTE-ROOT Management Information Base (MIB) Definitions
- 3.3. ANSI/SCTE 37 (formerly HMS 072), Hybrid Fiber/Coax Outside Plant Status Monitoring SCTE-HMS-ROOTS Management Information Base (MIB) Definition
- 3.4. ANSI/SCTE 38-1 Hybrid Fiber/Coax Outside Plant Status Monitoring SCTE-HMS-PROPERTY-MIB Management Information Base (MIB) Definition
- 3.5. ANSI/SCTE 38-2 Hybrid Fiber/Coax Outside Plant Status Monitoring SCTE-HMS-ALARMS-MIB Management Information Base (MIB)
- 3.6. IETF RFC 1155 Structure and Identification of Management Information for TCP/IP-based Internets [RFC1155-SMI]
- 3.7. IETF RFC 1212 Concise MIB Definitions
- 3.8. IETF RFC 1213 MIB for Network Management of TCP/IP-based internets: MIBII
- 3.9. IETF RFC 1215 A Convention for Defining Traps for use with the SNMP

4.

Informative References

None

5.

Terms and Definitions

This document defines the following terms:

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

6.

Requirements

This section defines the mandatory syntax of the SCTE-HMS-COMMON-MIB. It follows the IETF Simple Network Management Protocol (SNMP) for defining the managed objects.

The syntax is given below.

```
-- *****
-- *
-- * Module Name:  HMS024R13.MIB
-- *
-- * SCTE Status:  ADOPTED FEBRUARY 15, 2002
-- *
-- * Description:  Implements SCTE-HMS-COMMON-MIB definitions
-- *
-- * This MIB contains common information about NEs.
-- * MIB items cover administrative information
-- * such as name, ID, model number, serial numbers vendor, and location;
-- * health indicators such as status and service state; and functional
-- * information such as power level and frequency range.
-- *
-- * CAUTION:  A SET OF ANY OBJECT STORED IN NON-VOLATILE MEMORY MAY RESULT IN AN ACTUAL WRITE TO NON-VOLATILE MEMORY,
-- * WHICH TYPICALLY HAS A FINITE LIFETIME. EXCESSIVE WRITING TO THESE OBJECTS COULD SHORTEN THE USEFUL LIFE OF THE
-- * DEVICE.
-- *
-- * Objects which are not present must not have the properties present either.
-- *
-- *
-- *****
```

SCTE-HMS-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS

OBJECT-TYPE FROM RFC-1212
TRAP-TYPE FROM RFC-1215
Counter FROM RFC1155-SMI
NetworkAddress FROM RFC1155-SMI
DisplayString FROM RFC1213-MIB
scteHmsTree FROM SCTE-ROOT

```
-- *
-- * Common MIB prefix
-- *
-- * commonIdent FROM SCTE-HMS-ROOTS
;
```

```
-- *
-- * Groups in the Common MIB
-- *
```

commonAdminGroup OBJECT IDENTIFIER ::= { commonIdent 1 }
commonMACGroup OBJECT IDENTIFIER ::= { commonIdent 2 }
commonMulticastGroup OBJECT IDENTIFIER ::= { commonIdent 3 }
commonStatsGroup OBJECT IDENTIFIER ::= { commonIdent 4 }
commonRfGroup OBJECT IDENTIFIER ::= { commonIdent 5 }

commonMacStats OBJECT IDENTIFIER ::= { commonStatsGroup 1 }

```
-- *
-- *
-- * The Transponder Administrative Group
-- *
-- * Implementation of the Transponder Administrative Group is mandatory.
-- * Within the group a number of objects are optional.
-- *
```

```
commonLogicalID OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(0..40))
    ACCESS read-write
    STATUS mandatory
    DESCRIPTION
        "Specifies the logical ID for the network element used by network
        management systems. The ID will often remain with a specific location
        regardless of any specific network element's characteristics.
        The value for this object is maintained in non-volatile memory."
    ::= { commonAdminGroup 1 }
```

```
commonVendor OBJECT-TYPE
    SYNTAX DisplayString (SIZE(0..255))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "Displays the manufacturer of the network element.
        Displayed in human-readable format."
    ::= { commonAdminGroup 2 }
```

```
commonModelNumber OBJECT-TYPE
    SYNTAX DisplayString (SIZE(0..255))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "Displays the model number of the network element.
        Displayed in human-readable format."
    ::= { commonAdminGroup 3 }
```

```
commonSerialNumber OBJECT-TYPE
    SYNTAX DisplayString (SIZE(0..255))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "Returns the Serial Number of the Network Element.
        Displayed in human-readable format."
    ::= { commonAdminGroup 4 }
```

```
commonVendorInfo OBJECT-TYPE
    SYNTAX DisplayString (SIZE(0..255))
```