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# S T A N D A R D S

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**Network Operations Subcommittee**

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**AMERICAN NATIONAL STANDARD**

**ANSI/SCTE 38-10 2017**

**Outside Plant Status Monitoring  
SCTE-HMS-RF-AMPLIFIER-MIB  
Management Information Base (MIB) Definition**

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## SCOPE

This document is identical to SCTE 38-10 2009 except for informative components which may have been updated such as the title page, NOTICE text, headers and footers. No normative changes have been made to this document.

This document defines information about HFC RF Amplifiers.

## COPYRIGHT

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

## NORMATIVE REFERENCE

IETF RFC 1155

SCTE 37

SCTE 38

## INFORMATIVE REFERENCE

None

## 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.

## REQUIREMENTS

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

The syntax is given below.

```

*****
-- *
-- * Module Name: HMS115R4.MIB SCTE-38-10
-- *
-- * SCTE Status: Draft Revision 4
-- *
-- * Description: Implements SCTE-HMS-AMPLIFIER-MIB for Amplifiers.
-- *             This MIB is intended for use on all RF Amplifiers. This
-- *             includes the US strand mount or outside plant rfAmplifiers,
-- *             and some pedestal models. This MIB may not apply to the
-- *             pedestal racks used in the European Cable networks.
-- *
-- * EXCEPT AS NOTED, THE VOLATILITY OF CONTROL OBJECTS IN THIS MIB IS
-- * DETERMINED BY THE AMPLIFIER APPLICATION
-- *
-- * Note:
-- * Objects which are not present must not have the properties present either.
-- * This applies to:
-- *   a) Any table(s) not supported by an rfAmplifier;
-- *   b) Any object(s) not supported by an rfAmplifier;
-- *
-- *
-- *****

```

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

IMPORTS

OBJECT-TYPE

FROM RFC-1212

DisplayString

FROM RFC1213-MIB

rfAmplifierIdent

FROM SCTE-HMS-ROOTS

;

rfAmpAdminGroup OBJECT IDENTIFIER ::= { rfAmplifierIdent 1 }

```
-- *****
-- * Administration Group
-- *****
```

rfAmpVendorOID OBJECT-TYPE  
 SYNTAX OBJECT IDENTIFIER  
 ACCESS read-only  
 STATUS optional  
 DESCRIPTION  
 "This object provides a means for a vendor to point to a vendor  
 specific extension of this MIB."  
 ::= { rfAmpAdminGroup 1 }

rfAmpDeviceId OBJECT-TYPE  
 SYNTAX DisplayString ( SIZE(0..32) )  
 ACCESS read-only  
 STATUS mandatory  
 DESCRIPTION  
 "The content of this field is vendor specific. The intent is to  
 provide manufacturer and/or product specific ASCII text information  
 that will propagate to the manager's console verbatim. "  
 ::= { rfAmpAdminGroup 2 }

```
-- *****
-- * Forward RF Actives
-- *****
```

rfAmpNumberRFActives OBJECT-TYPE  
 SYNTAX INTEGER ( 1..16 )  
 ACCESS read-only  
 STATUS mandatory  
 DESCRIPTION  
 "Number of RF actives for this rfAmplifier.  
 There must be a least one RF Active per rfAmplifier.

Note also that it is not necessary to monitor the RF active; this