



***Society of Cable
Telecommunications
Engineers***

ENGINEERING COMMITTEE
Hybrid Management Sub-Layer Subcommittee

AMERICAN NATIONAL STANDARD

ANSI/SCTE 113 2006

**HMS Digital Transport
Management Information Base
SCTE-HMS-HE-DIG-TRANSPORT-MIB**

NOTICE

The Society of Cable Telecommunications Engineers (SCTE) Standards are intended to serve the public interest by providing specifications, test methods and procedures that promote uniformity of product, interchangeability and ultimately the long term reliability of broadband communications facilities. These documents shall not in any way preclude any member or non-member of SCTE from manufacturing or selling products not conforming to such documents, nor shall the existence of such standards preclude their voluntary use by those other than SCTE members, whether used domestically or internationally.

SCTE assumes no obligations or liability whatsoever to any party who may adopt the Standards. Such adopting party assumes all risks associated with adoption of these Standards, and accepts full responsibility for any damage and/or claims arising from the adoption of such Standards.

Attention is called to the possibility that implementation of this standard may require the use of subject matter covered by patent rights. By publication of this standard, no position is taken with respect to the existence or validity of any patent rights in connection therewith. SCTE shall not be responsible for identifying patents for which a license may be required or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention.

Patent holders who believe that they hold patents which are essential to the implementation of this standard have been requested to provide information about those patents and any related licensing terms and conditions. Any such declarations made before or after publication of this document are available on the SCTE web site at <http://www.scte.org>.

All Rights Reserved

© Society of Cable Telecommunications Engineers, Inc.
140 Philips Road
Exton, PA 19341

TABLE OF CONTENTS

1.0	SCOPE	<u>1</u>
2.0	NORMATIVE REFERENCES.....	<u>1</u>
3.0	INFORMATIVE REFERENCES	<u>1</u>
4.0	COMPLIANCE NOTATION	<u>1</u>
5.0	DEFINITIONS AND ACRONYMS.....	2
6.0	REQUIREMENTS.....	2

1.0 SCOPE

This document provides MIB definitions for HMS Digital Transport equipments present in the headend (or indoor) and is supported by a SNMP agent.

2.0 NORMATIVE REFERENCES

The following documents contain provisions, which, through reference in this text, constitute provisions of this standard. At the time of subcommittee approval, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

2.1 SCTE References

SCTE 38-11 2004 (formerly HMS114) SCTE-HMS-HEADENDIDENT-MIB
SCTE 83-1 2003 (formerly HMS108) SCTE-HMS-HE-OPTICS-MIB
SCTE 38-1 2004 (formerly HMS026) SCTE-HMS-PROPERTY-MIB
SCTE 84-1 2003 (formerly HMS111) SCTE-HMS-HE-COMMON-MIB

2.2 Standards from other Organizations

IETF RFC 2578 SNMPv2-SMI
IETF RFC 2579 SNMPv2-TC
IETF RFC 2580 SNMPv2-CONF
IETF RFC 2737 ENTITY-MIB
ITU-T G.652 Characteristics of a single-mode optical fibre and cable (06/05)
ITU-T G.655 Characteristics of a non-zero dispersion-shifted single-mode optical fibre and cable (03/06)

3.0 INFORMATIVE REFERENCES

The following documents may provide valuable information to the reader but are not required when complying with this standard.

None

4.0 COMPLIANCE NOTATION

“SHALL”	This word or the adjective “REQUIRED” means that the item is an absolute requirement of this specification.
“SHALL NOT”	This phrase means that the item is an absolute prohibition of this specification.
“SHOULD”	This word or the adjective “RECOMMENDED” means that there may exist valid reasons in particular circumstances to ignore this item, but

	the full implications should be understood and the case carefully weighted before choosing a different course.
“SHOULD NOT”	This phrase means that there may exist valid reasons in particular circumstances when the listed behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.
“MAY”	This word or the adjective “OPTIONAL” means that this item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because it enhances the product, for example; another vendor may omit the same item.

5.0 DEFINITIONS AND ACRONYMS

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

6.0 REQUIREMENTS

The following defines the mandatory syntax of the SCTE-HMS-HE-DIG-TRANSPORT-MIB. It follows the IETF Simple Network Management Protocol (SNMP) for defining managed objects. The syntax is given below.

SCTE-HMS-HE-DIG-TRANSPORT-MIB DEFINITIONS ::= BEGIN

IMPORTS

OBJECT-TYPE, MODULE-IDENTITY, Integer32,
 Unsigned32
 FROM SNMPv2-SMI
 OBJECT-GROUP, MODULE-COMPLIANCE
 FROM SNMPv2-CONF
 TEXTUAL-CONVENTION
 FROM SNMPv2-TC
 entPhysicalIndex
 FROM ENTITY-MIB
 HeHundredthNanoMeter, HeMilliAmp, HeTenthCentigrade,
 HeTenthdBm, HeFaultStatus
 FROM SCTE-HMS-HEADENDIDENT-MIB
 heOpticalTransportGroup
 FROM SCTE-HMS-HE-OPTICS-MIB
 heCommonNotificationsGroup, heCommonLogGroup
 FROM SCTE-HMS-HE-COMMON-MIB;

heDigXcvrMib MODULE-IDENTITY

LAST-UPDATED "200607210900Z"

ORGANIZATION

"SCTE HMS Working Group"

CONTACT-INFO

"SCTE HMS Subcommittee, Chairman
 mail to: standards@scte.org "