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# TABLE OF CONTENTS

1.0 SCOPE .........................................................................................................4
2.0 NORMATIVE REFERENCES....................................................................4
3.0 INFORMATIVE REFERENCES ................................................................4
4.0 COMPLIANCE NOTATION ......................................................................4
5.0 DEFINITIONS AND ACRONYMS ............................................................5
6.0 REQUIREMENTS.......................................................................................5
1.0 SCOPE

This document is identical to SCTE 113 2006 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 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.

<table>
<thead>
<tr>
<th>Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>“SHALL NOT”</td>
<td>This phrase means that the item is an absolute prohibition of this specification.</td>
</tr>
<tr>
<td>“SHOULD”</td>
<td>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 weighed before choosing a different course.</td>
</tr>
<tr>
<td>“SHOULD NOT”</td>
<td>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.</td>
</tr>
<tr>
<td>“MAY”</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 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.

```snmp
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
```
The parameters in this MIB module are applicable to the 'line side' interface of digital transport equipment such as a 10GbE aggregator. This MIB module does not address the 'client side' interfaces that have port speeds lower than 10Gbps.

The parameters defined in this MIB module primarily address the physical layer attributes of the device's external interfaces. This MIB does not address the parameters associated with the internal intelligence of the device such as OSI Layer 2 or Layer 3 switching/routing functionality. This is left to the appropriate standard (IETF) MIBs that might already exist. This MIB module does enforce the parameter representation structure, including depicting alarm states, as defined in SCTE-HMS-HE-COMMON-MIB (SCTE84-1). The heCommonAlarmEvent notification mentioned in this MIB module is defined in SCTE-HMS-HE-COMMON-MIB. Refer to SCTE-HMS-HE-COMMON-MIB for other compliance statements.

For each digital transceiver unit the entPhysicalDescr (defined in the ENTITY-MIB) may contain the XFP hardware interface description. The entPhysicalDescr may also contain the wavelength description. The wavelength description includes information such as the type of WDM or C/DWDM and dispersion compensation.

REVISION "200607210900Z"
DESCRIPTION
"1. Syntax Corrections.
2. Fixed IMPORTS and Compliance Statements."
::= { heOpticalTransportGroup 1 }

HeEnableValue ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "enable(1) or disable(2)."
SYNTAX INTEGER {
   enable (1),
   disable (2)
}
-- The Unit table

heDigXcvrUnitTable  OBJECT-TYPE
SYNTAX  SEQUENCE OF HeDigXcvrUnitEntry
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
"This table contains one row per digital transceiver unit. The table extends the
entPhysicalTable with the attributes pertinent to the digital transceiver unit."
::= { heDigXcvrMIBObjects 1 }

heDigXcvrUnitEntry  OBJECT-TYPE
SYNTAX  HeDigXcvrUnitEntry
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
"An entry in the Unit Table contains information about the unit."
INDEX { entPhysicalIndex }
::= { heDigXcvrUnitTable 1 }

HeDigXcvrUnitEntry ::= SEQUENCE {
  heDigXcvrUnitCompositeAlarm
    HeFaultStatus,
  heDigXcvrUnitType
    INTEGER
}

heDigXcvrUnitCompositeAlarm  OBJECT-TYPE
SYNTAX  HeFaultStatus
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
"System composite alarm. A SNMP Get request on this variable shall
return normal(1) if there are no alarms currently active on the unit
and fault(2) otherwise."

This object shall provide for the alarm management capabilities
with a corresponding entry in the discretePropertyTable of
SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable
of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable
of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent."
::= { heDigXcvrUnitEntry 1 }

heDigXcvrUnitType  OBJECT-TYPE
SYNTAX  INTEGER {
  xcvr (1),
  tx (2),
  rx (3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The unit type. A SNMP Get request on this variable indicates the
capabilities of the device.
xcvr(1) indicates Transceiver capabilities.
tx(2) indicates Transmitter capabilities.
rx(3) indicates Receiver capabilities.
"
::= { heDigXcvrUnitEntry 2 }

-- The Transceiver table

heDigXcvrTable OBJECT-TYPE
SYNTAX SEQUENCE OF HeDigXcvrEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains one row for each port. The table extends the entPhysicalTable
with the attributes pertinent to each port."
::= { heDigXcvrMIBObjects 2 }

heDigXcvrEntry OBJECT-TYPE
SYNTAX HeDigXcvrEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in the Transceiver Table contains information about a
particular transceiver."
INDEX { entPhysicalIndex }
::= { heDigXcvrTable 1 }

HeDigXcvrEntry ::= SEQUENCE {
heDigXcvrLsPOWALM
HeFaultStatus,
heDigXcvrLsPOWACT
HeTenthCentigrade,
heDigXcvrTEMPALM
HeFaultStatus,
heDigXcvrTEMPACT
HeTenthCentigrade,
heDigXcvrLsBIASALM
HeFaultStatus,
heDigXcvrLsBIASACT
HeMilliAmp,
heDigXcvrLsWAVEACT
HeHundredthNanoMeter,
heDigXcvrLsWaveNom
HeHundredthNanoMeter,
heDigXcvrFreqSpacingNom
HeHundredthNanoMeter,
heDigXcvrLsENABLE
HeEnableValue,
heDigXcvrLsENABLEStatus
HeEnableValue,
heDigXcvrRxPOWALM
  HeFaultStatus,
heDigXcvrRxPOWACT
  HeTenthdBm,
heDigXcvrTxLOCKERR
  HeFaultStatus,
heDigXcvrRxLOCKERR
  HeFaultStatus,
heDigXcvrRxLOSALM
  HeFaultStatus,
heDigXcvrDataErrorALM
  HeFaultStatus,
heDigXcvrDispTolPos
  Unsigned32,
heDigXcvrDispTolNeg
  Integer32
}

heDigXcvrLsPOWALM OBJECT-TYPE
SYNTAX    HeFaultStatus
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
  "A discrete alarm indicating loss of laser power.

  This object shall provide for the alarm management capabilities
  with a corresponding entry in the discretePropertyTable of
  SCTE-HMS-PROPERTY-MIB (SCTE38-1).

  The alarm shall be recorded as an entry in the currentAlarmTable
  of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

  A log record shall be added as an entry in the heCommonLogTable
  of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

  An heCommonAlarmEvent notification shall be sent."
::= { heDigXcvrEntry 1 }

heDigXcvrLsPOWACT OBJECT-TYPE
SYNTAX    HeTenthdBm
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
  "Output power of the transmitter on a particular port.

  This object shall provide for the alarm management capabilities
  with a corresponding entry in the PropertyTable of
  SCTE-HMS-PROPERTY-MIB (SCTE38-1).

  The alarm shall be recorded as an entry in the currentAlarmTable
  of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

  A log record shall be added as an entry in the heCommonLogTable
  of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).
An heCommonAlarmEvent notification shall be sent.
::= { heDigXcvrEntry 2 }

heDigXcvrTEMPALM OBJECT-TYPE
SYNTAX HeFaultStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A discrete alarm depicting abnormal temperature of the transceiver.

This object shall provide for the alarm management capabilities with a corresponding entry in the discretePropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.
::= { heDigXcvrEntry 3 }

heDigXcvrLsTEMPACT OBJECT-TYPE
SYNTAX HeTenthCentigrade
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A Get Request on the variable shall return the value of laser temperature.

This object shall provide for the alarm management capabilities with a corresponding entry in the PropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent"
::= { heDigXcvrEntry 4 }

heDigXcvrLsBIASALM OBJECT-TYPE
SYNTAX HeFaultStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A laser bias alarm.

This object shall provide for the alarm management capabilities with a corresponding entry in the discretePropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).
The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 5 }

heDigXcvrLsBIASACT OBJECT-TYPE
SYNTAX HeMilliAmp
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A Get Request on the variable shall return the value of laser bias.

This object shall provide for the alarm management capabilities with a corresponding entry in the PropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 6 }

heDigXcvrLsWAVEACT OBJECT-TYPE
SYNTAX HeHundredthNanoMeter
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Actual laser wavelength for the transmitter.

The wavelength offset can be derived from heDigXcvrLsWAVEACT and heDigXcvrLsWAVENom.

This object shall provide for the alarm management capabilities with a corresponding entry in the PropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 7 }

heDigXcvrLsWaveNom OBJECT-TYPE
SYNTAX HeHundredthNanoMeter
MAX-ACCESS read-write
A laser nominal wavelength for the transmitter. This value is writable for tunable lasers.

The wavelength offset can be derived from heDigXcvrLsWAVEACT and heDigXcvrLsWAVENom.

```
::= { heDigXcvrEntry 8 }
```

heDigXcvrFreqSpacingNom OBJECT-TYPE
SYNTAX     HeHundredthNanoMeter
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"The expected or factory initialized line-width/frequency spacing for the transmitter."
```
::= { heDigXcvrEntry 9 }
```

heDigXcvrLsENABLE OBJECT-TYPE
SYNTAX     HeEnableValue
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
"Laser enable/disable command."
```
::= { heDigXcvrEntry 10 }
```

heDigXcvrLsENABLEStatus OBJECT-TYPE
SYNTAX     HeEnableValue
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"A Get Request on the variable shall return the state of the laser (enabled/disabled).

This object shall provide for the alarm management capabilities with a corresponding entry in the discretePropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent."
```
::= { heDigXcvrEntry 11 }
```

heDigXcvrRxPOWALM OBJECT-TYPE
SYNTAX     HeFaultStatus
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"A receiver power alarm.
This object shall provide for the alarm management capabilities with a corresponding entry in the discretePropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 12 }

heDigXcvrRxPOWACT OBJECT-TYPE
SYNTAX HeTenthdBm
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A Get Request on the variable shall return the value of received optical power."

This object shall provide for the alarm management capabilities with a corresponding entry in the PropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 13 }

heDigXcvrTxLOCKERR OBJECT-TYPE
SYNTAX HeFaultStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A loss of lock on MUX alarm on the transmitter portion."

This object shall provide for the alarm management capabilities with a corresponding entry in the discretePropertyTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 14 }

heDigXcvrRxLOCKERR OBJECT-TYPE
SYNTAX     HeFaultStatus
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"A loss of lock on DMUX alarm on the receiver portion.

This object shall provide for the alarm management capabilities
with a corresponding entry in the discretePropertyTable of
SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable
of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable
of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent."
::= { heDigXcvrEntry 15 }

heDigXcvrRxLOSALM OBJECT-TYPE
SYNTAX     HeFaultStatus
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"A loss of signal alarm on the receiver portion.

This object shall provide for the alarm management capabilities
with a corresponding entry in the discretePropertyTable of
SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable
of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable
of SCTE-HMS-HE-COMMON-MIB (SCTE84-1).

An heCommonAlarmEvent notification shall be sent."
::= { heDigXcvrEntry 16 }

heDigXcvrDataErrorALM OBJECT-TYPE
SYNTAX     HeFaultStatus
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
"A data alarm on the receiver portion of the transceiver.

This object shall provide for the alarm management capabilities
with a corresponding entry in the discretePropertyTable of
SCTE-HMS-PROPERTY-MIB (SCTE38-1).

The alarm shall be recorded as an entry in the currentAlarmTable
of SCTE-HMS-PROPERTY-MIB (SCTE38-1).

A log record shall be added as an entry in the heCommonLogTable
of SCTE-HMS-HE-COMMON-MIB (SCTE84-1)."
An heCommonAlarmEvent notification shall be sent.

::= { heDigXcvrEntry 17 }

heDigXcvrDispTolPos OBJECT-TYPE
SYNTAX     Unsigned32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
  "The transmitter positive chromatic dispersion tolerance. The amount of
  positive chromatic dispersion, measured in ps/nm, that will cause the minimum
  received power to degrade by 2 dB. This is a positive value to represent
  propagation through standard single mode fiber (ITU-T G.652) at the lasing
  wavelength of the transmitter."

::= { heDigXcvrEntry 18 }

heDigXcvrDispTolNeg OBJECT-TYPE
SYNTAX     Integer32
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
  "The transmitter negative chromatic dispersion tolerance. The amount of
  negative chromatic dispersion, measured in ps/nm, that will cause the minimum
  received power to degrade by 2 dB. This is a negative value to represent
  propagation through an over-compensated link, or through fiber with negative
  dispersion (ITU-T G.655 NZD-)."

::= { heDigXcvrEntry 19 }

heDigXcvrCompliance MODULE-COMPLIANCE
STATUS     current
DESCRIPTION
  "The minimum compliance statement for digital transceivers."

MODULE
  MANDATORY-GROUPS { heDigTransmitterMandatoryGroup,
                     heDigReceiverMandatoryGroup }
  GROUP heDigTransmitterGroup
  DESCRIPTION
  "The heDigTransmitterGroup is unconditionally optional."
  GROUP heDigReceiverGroup
  DESCRIPTION
  "The heDigReceiverGroup is unconditionally optional."
  GROUP heDigXcvrUnitGroup
  DESCRIPTION
  "The heDigXcvrUnitGroup is unconditionally optional."

MODULE SCTE-HMS-HE-COMMON-MIB
  MANDATORY-GROUPS { heCommonLogGroup,
                     heCommonNotificationsGroup }

::= { heDigXcvrCompliances 1 }

-- This module MIB groupings

heDigXcvrUnitGroup OBJECT-GROUP
OBJECTS { heDigXcvrUnitCompositeAlarm,
           heDigXcvrUnitType }
STATUS     current
DESCRIPTION
"The collection of objects which are used to represent the system parameters."
::= { heDigXcvrGroups 1 }

heDigTransmitterGroup OBJECT-GROUP
OBJECTS { heDigXcvrDataErrorALM,
          heDigXcvrFreqSpacingNom,
          heDigXcvrLsBIASACT,
          heDigXcvrLsBIASALM,
          heDigXcvrLsENABLE,
          heDigXcvrLsENABLEStatus,
          heDigXcvrLsPOWACT,
          heDigXcvrLsPOWALM,
          heDigXcvrLsTEMPACT,
          heDigXcvrLsWAVEACT,
          heDigXcvrLsWaveNom,
          heDigXcvrTEMPALM,
          heDigXcvrTxLOCKERR,
          heDigXcvrDispTolPos,
          heDigXcvrDispTolNeg }
STATUS current
DESCRIPTION
"The collection of objects which are used to represent the transmitter parameters."
::= { heDigXcvrGroups 2 }

heDigReceiverGroup OBJECT-GROUP
OBJECTS { heDigXcvrRxLOCKERR,
          heDigXcvrRxLOSALM,
          heDigXcvrRxPOWACT,
          heDigXcvrRxPOWALM }
STATUS current
DESCRIPTION
"The collection of objects which are used to represent the receiver parameters."
::= { heDigXcvrGroups 3 }

heDigTransmitterMandatoryGroup OBJECT-GROUP
OBJECTS { heDigXcvrFreqSpacingNom,
          heDigXcvrLsBIASALM,
          heDigXcvrLsENABLE,
          heDigXcvrLsPOWALM,
          heDigXcvrLsWaveNom }
STATUS current
DESCRIPTION
"The collection of mandatory objects which are used to represent the transmitter parameters. These parameters shall be supported if the unit has transmitter or a transceiver capabilities on the line side interface (e.g. 10GbE port)."
::= { heDigXcvrGroups 4 }

heDigReceiverMandatoryGroup OBJECT-GROUP
OBJECTS { heDigXcvrRxPOWALM }
STATUS current
DESCRIPTION
"The collection of mandatory objects which are used to represent the receiver parameters. These parameters shall be supported if the unit has receiver capabilities on the line side interface (e.g. 10GbE port)."
::= { heDigXcvrGroups 5 }
END