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Hybrid Fiber/Coax Outside Plant Status Monitoring
SCTE-HMS-PS-MIB
Management Information Base (MIB) Definition
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140 Philips Road
Exton, PA 19341
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1. Scope

This document is identical to SCTE 38-4 2012 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 commonly available from HFC power supplies. Its structure permits multiple power supplies to be monitored by a single transponder.

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

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.

3.1 IETF RFC 1155, Structure and identification of management information for TCP/IP-based internets

3.2 ANSI/SCTE 37 2010 Hybrid Fiber/Coax Outside Plant Status Monitoring SCTE-HMS-ROOTS Management Information Base (MIB) Definition

4. Informative References

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


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-PS-MIB. It follows the IETF Simple Network Management Protocol (SNMP) for defining the managed objects. The syntax is given below.
Module Name: HMS027R13.MIB

SCTE Status: ADOPTED FEBRUARY 15, 2002

Description: This MIB contains information commonly available from HFC power supplies. Its structure permits multiple power supplies to be monitored by a single transponder. See SCTE 25-3 (formerly HMS 022) for additional information.

This MIB is not restricted to only power supplies with serial interfaces.

Revisions from previous release:
* Edited OID descriptions only. For many of the OIDs ending with the word "support", enhanced the description to indicate exactly what other OID is supported. Clarified the description for psEquipmentControl and psOutputCurrent.
* Expanded the definition of psProtocolVersion to allow for the case where there is no Transponder Interface Bus as defined by 25-3.

Note:

Objects which are not present must not have the properties present either. This applies to:
* a) Any object(s) not supported by a supply (e.g., if psOutputPowerSupport.1 indicates 'none', then a GetRequest for psPowerOut.1 should return the SNMP error NoSuchName, and properties for the psPowerOut object should not be accessible.
* b) All objects for a supply that is not present (e.g., if power supply 2 does not exist, then objects indexed by power supply address 2 should not exist, nor should the properties.)

Objects which are not present must not have the properties present either.

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

IMPORTS
  OBJECT-TYPE FROM RFC-1212
  DisplayString FROM RFC1213-MIB
  psIdent FROM SCTE-HMS-ROOTS
;

psMonitored OBJECT-TYPE
  SYNTAX INTEGER ( 0..8 )
  ACCESS read-only
  STATUS mandatory
  DESCRIPTION

"Number of power supply connected to this NE."
 ::= { psIdent 1 }  

-- * NOTE: The following description is standard SNMP, and is meant as clarification.
-- *
-- * If psMonitored is 0, the NOSUCHNAME error must be returned for any Get/Set against objects in the
-- * tables listed below. Likewise, the NOSUCHNAME error must be returned for any Get/Set using a psDeviceAddress
-- * index for a non-existant power supply. This is also the case if the device at the address specified
-- * is not a power supply.
-- *
-- * For example, if 2 power supplies are available, with addresses 3 and 4, then a Get/Set using
-- * address 2 MUST return NOSUCHNAME. Returning an actual value with no error under these conditions is
-- * misleading and incorrect.
-- *
-- * psDeviceTable
-- * psStringTable
-- * psBatteryTable
-- * psOutputTable
-- *
-- * These rules apply to other tables as well.

psDeviceTable OBJECT-TYPE
 SYNTAX SEQUENCE OF PsDeviceEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "Table containing information about the individual
 power supplies being monitored"
 ::= { psIdent 2 }  

PsDeviceEntry OBJECT-TYPE
 SYNTAX PsDeviceEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "List of information about each power supply being monitored."
 INDEX { psDeviceAddress }
 ::= { psDeviceTable 1 }  

PsDeviceEntry ::= SEQUENCE
 {  
  psDeviceAddress
   INTEGER,  

-- * Power Supply Configuration

  psProtocolVersion
   INTEGER,  

}
psSoftwareVersion
   DisplayString,

psDeviceId
   OCTET STRING,

psBatteries
   INTEGER,

psBatteryStrings
   INTEGER,

psTempSensors
   INTEGER,

psOutputs
   INTEGER,

psBatteryCurrentSupport
   INTEGER,

psFloatCurrentSupport
   INTEGER,

psOutputVoltageSupport
   INTEGER,

psInputVoltageSupport
   INTEGER,

psPowerSupplyTest
   INTEGER,

psMajorAlarmSupport
   INTEGER,

psMinorAlarmSupport
   INTEGER,

psTamperSupport
   INTEGER,

psBatteryVoltageSupport
   INTEGER,

psOutputPowerSupport
   INTEGER,
psOutputFrequencySupport
   INTEGER,
psInputCurrentSupport
   INTEGER,
psInputPowerSupport
   INTEGER,
   -- * Power Supply Data
psOutputVoltage
   INTEGER,
psInputVoltage
   INTEGER,
psInverterStatus
   INTEGER,
psMajorAlarm
   INTEGER,
psMinorAlarm
   INTEGER,
psTamper
   INTEGER,
psTotalStringVoltage
   INTEGER,
psEquipmentControl
   INTEGER,
psPowerOut
   INTEGER,
psFrequencyOut
   INTEGER,
psRMSCurrentIn
   INTEGER,
psPowerIn
   INTEGER,
psInputVoltagePresence
   INTEGER,
psFrequencyIn
    INTEGER

psDeviceAddress OBJECT-TYPE
SYNTAX INTEGER ( 1..8 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Index into the psDeviceTable. For devices that implement ANSI/SCTE 25-3 (formally HMS022),
this is the address of this device on the RS-485 path."
::= { psDeviceEntry 1 } -- * Power Supply Configuration

psProtocolVersion OBJECT-TYPE
SYNTAX INTEGER ( 1..254 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Version of the SCTE HMS protocol implemented in the monitored
equipment. The 'Protocol Version' implementation will comply
with the defined protocol in the SCTE 25-3 (formerly HMS 022) document with the
corresponding revision number.

Example: A power supply implementing all commands and responses defined in
SCTE 25-3 version 1.0 (formerly HMS 022) would return a value of 10 (decimal) in this field,
reflecting major revision 1, minor revision 0.

Any number returned that is less than 10 reflects a version of the SCTE 25-3 specification
that had not yet been approved by SCTE.

Transponders which are capable of appropriately rendering the data as defined by this MIB
without implementing an interface as defined by SCTE 25-3 may respond with one of two values:
[a] the transponder may return a value of zero (0), or [b] the transponder may return a value
consistent with the SCTE 25-3 version that the transponder wants to make it appear it is
supporting."
::= { psDeviceEntry 2 }

psSoftwareVersion OBJECT-TYPE
SYNTAX DisplayString (SIZE(8))
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The content of this field is vendor specific. The intent is to provide
a text representation of the power supply or generator system software
version. Any printable ASCII characters can be included in this field. NULL (0x00) characters are non-printable and are used to fill any unused locations following the text data.

::= { psDeviceEntry 3 }  

psDeviceId OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(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. The following special characters are defined in association with this field:
'\n' Used to cause a new line on the console display. Example: 'ALPHA\nXM2 9015' would appear at the monitoring station as:
ALPHA
XM2 9015"
::= { psDeviceEntry 4 }  

psBatteries OBJECT-TYPE  
SYNTAX INTEGER ( 0..8 )  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"Current number of batteries per battery string."
::= { psDeviceEntry 5 }  

psBatteryStrings OBJECT-TYPE  
SYNTAX INTEGER ( 0..2 )  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"Current number of battery strings."
::= { psDeviceEntry 6 }  

psTempSensors OBJECT-TYPE  
SYNTAX INTEGER ( 0..2 )  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"Number of Battery temperature sensors."
::= { psDeviceEntry 7 }  

psOutputs OBJECT-TYPE  
SYNTAX INTEGER ( 1..5 )  
ACCESS read-only  
STATUS mandatory
DESCRIPTION
"Number of power supply outputs."
::= { psDeviceEntry 8 }

psBatteryCurrentSupport OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Bit Map that defines if battery current is measured in this installation.
Bit set means this particular string supports this measurement.
Bits Addresses
0 Not used
1 1 String 1 has battery current support
2 2 String 2 has battery current support
3 3 String 3 has battery current support
4 4 String 4 has battery current support
......
 n n String n has battery current support"
::= { psDeviceEntry 9 }

psFloatCurrentSupport OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Bit Map that defines if float current is measured in this installation.
Bit set means this particular string supports this measurement.
Bits Addresses
0 Not used
1 1 String 1 has float current support
2 2 String 2 has float current support
3 3 String 3 has float current support
4 4 String 4 has float current support
......
 n n String n has float current support"
::= { psDeviceEntry 10 }

psOutputVoltageSupport OBJECT-TYPE
SYNTAX INTEGER { none(1), supported(2) }
ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "Defines if power supply supports monitoring of output voltage and psOutputVoltage:
 1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
 associated value in Get_Power_Supply_Data response.
 2 = Field is supported in this installation."
 ::= { psDeviceEntry 11 }

psInputVoltageSupport OBJECT-TYPE
 SYNTAX INTEGER { none(1), binary(2), analog(3) }
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "Defines if power supply supports monitoring of input or line voltage and psInputVoltage:
 1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
 associated value in Get_Power_Supply_Data response.
 2 = Field is supported - value in psInputVoltagePresence.
 3 = Field is supported - analog representation. value in psInputVoltage."
 ::= { psDeviceEntry 12 }

psPowerSupplyTest OBJECT-TYPE
 SYNTAX INTEGER { none(1), supported(2) }
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "Defines if power supply supports the remote test feature:
 1 = Function not supported.
 2 = Function is supported."
 ::= { psDeviceEntry 13 }

psMajorAlarmSupport OBJECT-TYPE
 SYNTAX INTEGER { none(1), supported(2) }
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
 "Defines if the power supply supports the major alarm indicator and psMajorAlarm:
 1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
 associated value in Get_Power_Supply_Data response.
 2 = Field is supported in this installation."
 ::= { psDeviceEntry 14 }

psMinorAlarmSupport OBJECT-TYPE
 SYNTAX INTEGER { none(1), supported(2) }
 ACCESS read-only
 STATUS mandatory
 DESCRIPTION
"Defines if the power supply supports the minor alarm indicator and psMinorAlarm:
1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
associated value in Get_Power_Supply_Data response.
2 = Field is supported in this installation."
::= { psDeviceEntry 15 }

psTamperSupport OBJECT-TYPE
SYNTAX INTEGER { none(1), supported(2) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Defines if the enclosure door switch is installed in this location and psTamper is supported:
1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
associated value in Get_Power_Supply_Data response.
2 = Field is supported in this installation."
::= { psDeviceEntry 16 }

psBatteryVoltageSupport OBJECT-TYPE
SYNTAX INTEGER { noMonitoring(1), totalString(2), both(3) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Defines the if batteries or string voltage are available:
1 = No battery voltage monitoring is available.
2 = Only full string battery voltage is available.
3 = Both individual battery and full string voltages are available."
::= { psDeviceEntry 17 }

psOutputPowerSupport OBJECT-TYPE
SYNTAX INTEGER { none(1), supported(2) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Defines if the output power measurement and psPowerOut is supported:
1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
associated value in Get_Power_Supply_Data response.
2 = Field is supported in this installation."
::= { psDeviceEntry 18 }

psOutputFrequencySupport OBJECT-TYPE
SYNTAX INTEGER { none(1), supported(2) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Defines if the output frequency measurement and psFrequencyOut is supported
1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
associated value in Get_Power_Supply_Data response.
2 = Field is supported in this installation.”
 ::= { psDeviceEntry 19 }

psInputCurrentSupport OBJECT-TYPE
SYNTAX INTEGER { none(1), supported(2) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Defines if the input current measurement and psRMSCurrentIn is supported
1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
associated value in Get_Power_Supply_Data response.
2 = Field is supported in this installation.”
 ::= { psDeviceEntry 20 }

psInputPowerSupport OBJECT-TYPE
SYNTAX INTEGER { none(1), supported(2) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Defines if the input power measurement and psPowerIn is supported
1 = No support. For devices that implement ANSI/SCTE 25-3 (formally HMS022) discard
associated value in Get_Power_Supply_Data response.
2 = Field is supported in this installation.”
 ::= { psDeviceEntry 21 }

-- * Power Supply Data

psOutputVoltage OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Power supply output voltage in 1/100 Volts units.
This RMS value is common for all outputs in a multiple output system.
This item requires an entry in the properties MIB”
 ::= { psDeviceEntry 22 }

psInputVoltage OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of input 'line' or 'grid' voltage. This is an
RMS value in 1/100 Volts units. This item requires an entry in the
properties MIB.”
 ::= { psDeviceEntry 23 }

psInverterStatus OBJECT-TYPE


SYNTAX INTEGER { off(1), lineFail(2), testCycle(3), testStarted(4), testFailed(5) }
ACCESS read-only
STATUS optional
DESCRIPTION
"Status of power supply inverter. Enumerated value indicates current
status of inverter.
1 = OFF,
2 = ON: AC Line Fail,
3 = ON: Local Test Cycle,
4 = ON: Remote test initiated
5 = ALARM: Last Test Failed

This item requires entries in the discrete properties MIB."

::= { psDeviceEntry 24 }

psMajorAlarm OBJECT-TYPE
SYNTAX INTEGER { noAlarm(1), alarm(2) }
ACCESS read-only
STATUS optional
DESCRIPTION
"Service has been dropped or a service interruption is imminent.
Indicates that an immediate truck roll is appropriate.
Specific alarms and alarm nomenclature varies between vendors.
Vendors should disclose all conditions that contribute to this
alarm in appropriate product literature.

1 = OK,
2 = ALARM.

This item requires entries in the discrete properties MIB."

::= { psDeviceEntry 25 }

psMinorAlarm OBJECT-TYPE
SYNTAX INTEGER { noAlarm(1), alarm(2) }
ACCESS read-only
STATUS optional
DESCRIPTION
"A non-service effecting condition has occurred and should be monitored. Specific alarms and alarm nomenclature varies between vendors. Vendors should disclose all conditions that contribute to this alarm in appropriate product literature.

1 = OK,
2 = ALARM

This item requires entries in the discrete properties MIB."
psTamper OBJECT-TYPE
SYNTAX INTEGER { closed(1), open(2) }
ACCESS read-only
STATUS optional
DESCRIPTION
"Indicates status of enclosure door. This notification is NOT included in the 'Major' or 'Minor' alarm fields. Individual users / installations must determine if a door open status represents an alarm and if so, of what severity.

1 = CLOSED,
2 = OPEN

This item requires entries in the discrete properties MIB."

psTotalStringVoltage OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of the full battery string in 1/100 Volts units. This item requires an entry in the properties MIB."

psEquipmentControl OBJECT-TYPE
SYNTAX INTEGER { stopTest(1), startTest(2) }
ACCESS read-write
STATUS optional
DESCRIPTION
"Inverter test control. During AC Fail (psInverterStatus = 2) the result of changing this value is unspecified and vendor specific.

1 = Discontinue inverter operation,
2 = Begin inverter operation"

psPowerOut OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Representation of power supply output power in 1 W.
This item requires an entry in the properties MIB."

::= { psDeviceEntry 30 }

psFrequencyOut OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of the power supply output frequency in 1/100 Hz.
This item requires an entry in the properties MIB."

::= { psDeviceEntry 31 }

psRMSCurrentIn OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of the power supply RMS input current in 1/100 A.
This item requires an entry in the properties MIB."

::= { psDeviceEntry 32 }

psPowerIn OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Representation of the power supply input power in 1 W.
This item requires an entry in the properties MIB."

::= { psDeviceEntry 33 }

psInputVoltagePresence OBJECT-TYPE
SYNTAX INTEGER { lost(1), ok(2) }
ACCESS read-only
STATUS optional
DESCRIPTION
"Digital value indicating that line voltage is present and within
tolerance or not.
1 = lost
2 = ok.
This item requires entries in the discrete properties MIB."

::= { psDeviceEntry 34 }

psFrequencyIn OBJECT-TYPE
SYNTAX INTEGER { fiftyHz(1), sixtyHz(2) }
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Operational frequency for input voltage"
 ::= { psDeviceEntry 35 }

-- * String data

psStringTable OBJECT-TYPE
SYNTAX SEQUENCE OF PsStringEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"Table containing strings data"
 ::= { psIdent 3 }

psStringEntry OBJECT-TYPE
SYNTAX PsStringEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"List of information about each string. Indexed by device and string number"
INDEX { psStringDeviceAddress, psString }
 ::= { psStringTable 1 }

PsStringEntry ::= SEQUENCE
 { psStringDeviceAddress
   INTEGER,
   psString
   INTEGER,
   psStringChargeCurrent
   INTEGER,
   psStringDischargeCurrent
   INTEGER,
   psStringFloat
   INTEGER
   }
SYNTAX INTEGER ( 1..8 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Index into the psStringTable. Corresponds to psDeviceAddress in psDeviceTable."
::= { psStringEntry 1 }

psString OBJECT-TYPE
SYNTAX INTEGER ( 1..2 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Index into the psStringTable."
::= { psStringEntry 2 }

psStringChargeCurrent OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of battery string charge current. This is an RMS value in 1/100 Amps. When batteries being discharged, this value will = 0. This item requires an entry in the properties MIB."
::= { psStringEntry 3 }

psStringDischargeCurrent OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of battery string discharge current. This is an RMS value in 1/100 Amps. If multiple strings are installed but only one measurement sensor is used, this value represents the total battery discharge current. When batteries are being charged, this value will = 0. This item requires an entry in the properties MIB."
::= { psStringEntry 4 }

psStringFloat OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of battery 'float' charge current in 1/100 Amps. This field will be '0' under conditions other than during actual float charging. When this field is non-zero (reporting
float current), other battery current values (charge and discharge) should be discarded. If multiple strings are installed but only one measurement sensor is used, this field represents the total float current. This item requires an entry in the properties MIB."

 ::= { psStringEntry 5 }

-- * Battery Data

psBatteryTable OBJECT-TYPE
SYNTAX SEQUENCE OF PsBatteryEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"Table containing batteries voltages"
 ::= { psIdent 4 }

psBatteryEntry OBJECT-TYPE
SYNTAX PsBatteryEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"List of information about each battery. Indexed by device number and string"
INDEX { psBatteryDeviceAddress, psBatteryString, psBattery }
 ::= { psBatteryTable 1 }

PsBatteryEntry ::= SEQUENCE
{ psBatteryDeviceAddress
  INTEGER,

  psBatteryString
  INTEGER,

  psBattery
  INTEGER,

  psBatteryVoltage
  INTEGER
}

psBatteryDeviceAddress OBJECT-TYPE
SYNTAX INTEGER ( 1..8 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Index into the psBatteryTable. Corresponds to psDeviceAddress in psDeviceTable."
::= { psBatteryEntry 1 }

psBatteryString OBJECT-TYPE
SYNTAX INTEGER ( 1..2 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Index into the psBatteryTable. Corresponds to psString in psStringTable."
::= { psBatteryEntry 2 }

psBattery OBJECT-TYPE
SYNTAX INTEGER ( 1..8 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
"Index into the psBatteryTable."
::= { psBatteryEntry 3 }

psBatteryVoltage OBJECT-TYPE
SYNTAX INTEGER ( 0..65535 )
ACCESS read-only
STATUS optional
DESCRIPTION
"Scaled representation of an individual battery voltage in 1/100 Volts.
String 'A' is used if only one battery string is active.
This item requires an entry in the properties MIB."
::= { psBatteryEntry 4 }

-- * Output Data

psOutputTable OBJECT-TYPE
SYNTAX SEQUENCE OF PsOutputEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"Table containing output currents"
::= { psIdent 5 }

psOutputEntry OBJECT-TYPE
SYNTAX PsOutputEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"List of information about each Output port. Indexed by device and port number"
INDEX { psOutputDeviceAddress, psOutput }
::= { psOutputTable 1 }
PsOutputEntry ::=  
  SEQUENCE {  
    psOutputDeviceAddress  
      INTEGER,  
    psOutput  
      INTEGER,  
    psOutputCurrent  
      INTEGER  
  }

psOutputDeviceAddress OBJECT-TYPE  
  SYNTAX INTEGER ( 1..8 )  
  ACCESS read-only  
  STATUS mandatory  
  DESCRIPTION  
    "Index into the psOutputTable. Corresponds to psDeviceAddress in psDeviceTable."  
  ::= { psOutputEntry 1 }

psOutput OBJECT-TYPE  
  SYNTAX INTEGER ( 1..5 )  
  ACCESS read-only  
  STATUS mandatory  
  DESCRIPTION  
    "Index into the psOutputTable. Output number"  
  ::= { psOutputEntry 2 }

psOutputCurrent OBJECT-TYPE  
  SYNTAX INTEGER ( 0..65535 )  
  ACCESS read-only  
  STATUS optional  
  DESCRIPTION  
    "Scaled representation of power supply RMS output current in 1/100 Amps.  
     If psOutputTable contains only one entry for a given power supply, this  
     value is the total power supply output current (the power supply may  
     have one or more outputs). If psOutputTable contains multiple entries  
     for a power supply, the power supply has more than one output and each  
     entry represents the current on a unique and separate output.  
     This item requires an entry in the properties MIB."  
  ::= { psOutputEntry 3 }

PsTemperatureSensorTable OBJECT-TYPE  
  SYNTAX SEQUENCE OF PsTemperatureSensorEntry  
  ACCESS not-accessible  
  STATUS mandatory
DESCRIPTION
  "Table containing temperature sensors information"
::= { psIdent 6 }

psTemperatureSensorEntry OBJECT-TYPE
SYNTAX PsTemperatureSensorEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
  "List of information about each Temperature sensor. Indexed by device and Sensor number"
INDEX { psTempDeviceAddress, psTemperatureSensor }
::= { psTemperatureSensorTable 1 }

PsTemperatureSensorEntry ::= 
  SEQUENCE
  {
    psTempDeviceAddress
      INTEGER,
    psTemperatureSensor
      INTEGER,
    psTemperature
      INTEGER
  }

psTempDeviceAddress OBJECT-TYPE
SYNTAX INTEGER ( 1..8 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
  "Index into the psTemperatureSensorTable. Corresponds to psDeviceAddress in psDeviceTable."
::= { psTemperatureSensorEntry 1 }

psTemperatureSensor OBJECT-TYPE
SYNTAX INTEGER ( 1..2 )
ACCESS read-only
STATUS mandatory
DESCRIPTION
  "Index into the psTemperatureSensorTable. Temperature sensor number"
::= { psTemperatureSensorEntry 2 }

psTemperature OBJECT-TYPE
SYNTAX INTEGER ( -40..80 )
ACCESS read-only
STATUS optional
DESCRIPTION
  "Scaled representation of temperature.
   in degrees C with a range of -40 to +80 degrees C."
This item requires an entry in the properties MIB.

::= { psTemperatureSensorEntry 3 }

END