

IEEE8023-DOT3-LLDP-EXT-V2-MIB DEFINITIONS ::= BEGIN

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```
IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32,
    Integer32,
    org
        FROM SNMPv2-SMI
    TruthValue
        FROM SNMPv2-TC
    MODULE-COMPLIANCE,
    OBJECT-GROUP
        FROM SNMPv2-CONF
    ifGeneralInformationGroup
        FROM IF-MIB
    lldpV2LocPortIfIndex,
    lldpV2RemLocalIfIndex,
    lldpV2RemTimeMark,
    lldpV2RemLocalDestMACAddress,
    lldpV2RemIndex,
    lldpV2PortConfigEntry
        FROM LLDP-V2-MIB
-- http://www.ieee802.org/1/files/public/MIBs/LLDP-V2-MIB-200906080000Z.txt
LldpV2PowerPortClass
    FROM LLDP-V2-TC-MIB
-- http://www.ieee802.org/1/files/public/MIBs/LLDP-V2-TC-MIB-200906080000Z.txt
;
```

```
ieee8023lldpV2Xdot3MIB MODULE-IDENTITY
    LAST-UPDATED "201304110000Z202307050000Z" -- April 11July 5, 20132023
    ORGANIZATION "IEEE 802.3 Working Group"
    CONTACT-INFO
        "WG-URL: http://www.ieee802.org/3/index.html
        WG-EMail: STDS-802-3-MIB@LISTSERV.IEEE.ORG
```

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```
        Contact: Howard Frazier
        Postal: 3151 Zanker Road
                San Jose, CA 95134
                USA
        Tel: +1.408.922.8164
        E-mail: hfrazier@broadcom.com"
```

```
DESCRIPTION
    "The LLDP Management Information Base extension module for
    IEEE 802.3 organizationally defined discovery information."
```

Commented [MH1]: We should likely set up a contact for 802.3 to be used in MIBs. This should not be an individual, but rather an 802.3 organization email.

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```
REVISION "202307050000Z" - July 5, 2023
```

```
DESCRIPTION
```

```
"Revision, based on an earlier version in IEEE Std 802.3.1-2013
addressing changes from IEEE Std 802.3 revisions 2012, 2015, 2018,
and 2022."
```

```
REVISION "201304110000Z" -- April 11, 2013
```

```
DESCRIPTION
```

```
"Revision, based on an earlier version in IEEE Std 802.3.1-2011."
```

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```
REVISION "201102020000Z" -- February 2, 2011
```

```
DESCRIPTION
```

```
"This revision incorporated changes to the MIB module to
add objects to support management of Energy Efficient
Ethernet (EEE) and Enhanced DTE Power via the MDI (PoE+)."
```

```
::= { org ieee(111)
    standards-association-numbers-series-standards(2)
    lan-man-stds(802)ieee802dot3(3) ieee802dot3dot1mibs(1) 5 }
```

```
-----
--
```

```

-- Organizationally Defined Information Extension - IEEE 802.3
--
-----
lldpV2Xdot3Objects OBJECT IDENTIFIER ::= { ieee8023lldpV2Xdot3MIB 1 }

-- LLDP IEEE 802.3 extension MIB groups
lldpV2Xdot3Config OBJECT IDENTIFIER ::= { lldpV2Xdot3Objects 1 }
lldpV2Xdot3LocalData OBJECT IDENTIFIER ::= { lldpV2Xdot3Objects 2 }
lldpV2Xdot3RemoteData OBJECT IDENTIFIER ::= { lldpV2Xdot3Objects 3 }

-----

-- IEEE 802.3 - Configuration
-----

--
-- Version 2 of lldpV2Xdot3PortConfigTable
-- supports use of multiple destination MAC addresses
--

lldpV2Xdot3PortConfigTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3PortConfigEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table that controls selection of LLDP TLVs to be transmitted
    on individual ports."
 ::= { lldpV2Xdot3Config 1 }

lldpV2Xdot3PortConfigEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3PortConfigEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "LLDP configuration information that controls the
    transmission of IEEE 802.3 organizationally defined TLVs on
    LLDP transmission capable ports.

    This configuration object augments the lldpV2PortConfigEntry of
    the LLDP-MIB, therefore it is only present along with the port
    configuration defined by the associated lldpV2PortConfigEntry
    entry.

    Each active lldpV2Xdot3PortConfigEntry is restored from non-volatile
    storage (along with the corresponding lldpV2PortConfigEntry)
    after a re-initialization of the management system."
    AUGMENTS { lldpV2PortConfigEntry }
 ::= { lldpV2Xdot3PortConfigTable 1 }

LldpV2Xdot3PortConfigEntry ::= SEQUENCE {
    lldpV2Xdot3PortConfigTLVsTxEnable BITS
}

lldpV2Xdot3PortConfigTLVsTxEnable OBJECT-TYPE
SYNTAX BITS {
    macPhyConfigStatus(0),
    powerViaMDI(1),
    unused(2), --avoids re-use of the old link agg bit number
    maxFrameSize(3),
    eeeEnabled(4),
    eeeFastWakeEnabled(5),
    addEthernetCapabilities(6)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The lldpV2Xdot3PortConfigTLVsTxEnable, defined as a bitmap,
    includes the IEEE 802.3 organizationally defined set of LLDP

```

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TLVs whose transmission is allowed by the local LLDP agent by the network management. Each bit in the bitmap corresponds to an IEEE 802.3 subtype associated with a specific IEEE 802.3 optional TLV.

The bit 'macPhyConfigStatus(0)' indicates that the LLDP agent should transmit 'MAC/PHY configuration/status TLV'.

The bit 'powerViaMDI(1)' indicates that the LLDP agent should transmit 'Power via MDI TLV'.

The bit 'unused(2)' is no longer used; this was used for the 'Link Aggregation TLV' in the previous version.

The bit 'maxFrameSize(3)' indicates that the LLDP agent should transmit 'Maximum-frame-size TLV'.

The bit 'eeeEnabled(4)' indicates that the LLDP agent should transmit EEE TLV.

The bit 'eeeFastWakeEnabled(5)' indicates that the LLDP agent should transmit EEE Fast Wake TLV.

The bit 'addEthernetCapabilities(6)' indicates that the LLDP agent should transmit Additional Ethernet Capabilities TLV.

The default value for lldpV2Xdot3PortConfigTLVsTxEnable object is an empty set, which means no enumerated values are set.

The value of this object is restored from non-volatile storage after a re-initialization of the management system."

REFERENCE

"IEEE Std 802.3-2012 IEEE Std 802.3, 30.12.1.1.1"

DEFVAL { { } }

::= { lldpV2Xdot3PortConfigEntry 1 }

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-----
-- IEEE 802.3 - Local Device Information
-----

---
--- lldpV2Xdot3LocPortTable: Ethernet Port AutoNeg/Speed/Duplex
--- Information Table
--- V2 modified to be indexed by ifIndex.
---

lldpV2Xdot3LocPortTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3LocPortEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains one row per port of Ethernet port
    information (as a part of the LLDP 802.3 organizational
    extension) on the local system known to this agent."
 ::= { lldpV2Xdot3LocalData 1 }

lldpV2Xdot3LocPortEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3LocPortEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a particular port component."
INDEX { lldpV2LocPortIfIndex }
 ::= { lldpV2Xdot3LocPortTable 1 }

LldpV2Xdot3LocPortEntry ::= SEQUENCE {
    lldpV2Xdot3LocPortAutoNegSupported TruthValue,
    lldpV2Xdot3LocPortAutoNegEnabled TruthValue,
    lldpV2Xdot3LocPortAutoNegAdvertisedCap OCTET STRING,
    lldpV2Xdot3LocPortOperMauType Unsigned32
}
```

```
lldpV2Xdot3LocPortAutoNegSupported OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to indicate whether the given port
    (associated with the local system) supports Auto-negotiation."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.1"
 ::= { lldpV2Xdot3LocPortEntry 1 }
```

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```
lldpV2Xdot3LocPortAutoNegEnabled OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to indicate whether port
    Auto-negotiation is enabled on the given port associated
    with the local system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.2"
 ::= { lldpV2Xdot3LocPortEntry 2 }
```

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```
lldpV2Xdot3LocPortAutoNegAdvertisedCap OBJECT-TYPE
SYNTAX      OCTET STRING(SIZE(2))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object contains the value (bitmap) of the
    ifMauAutoNegCapAdvertisedBits object (defined in IETF RFC
    3636) which is associated with the given port on the
    local system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.3"
 ::= { lldpV2Xdot3LocPortEntry 3 }
```

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```
lldpV2Xdot3LocPortOperMauType OBJECT-TYPE
SYNTAX      Unsigned32(0..2147483647)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "An integer value that indicates the operational MAU type
    of the given port on the local system.

    This object contains the integer value derived from the
    list position of the corresponding dot3MauType as listed
    in Clause 13 and is equal to the last number in the
    respective dot3MauType OID.

    For example, if the ifMauType object is dot3MauType1000BaseTHD
    which corresponds to {dot3MauType 29}, the numerical value of
    this field is 29. For MAU types not listed in Clause 13,
    the value of this field shall be set to zero."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.4"
 ::= { lldpV2Xdot3LocPortEntry 4 }
```

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```
---
---
--- lldpV2Xdot3LocPowerTable: Power Ethernet Information Table
--- V2 modified to be indexed by ifIndex.
---
```

```
lldpV2Xdot3LocPowerTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpV2Xdot3LocPowerEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains one row per port of power Ethernet
```

```
information (as a part of the LLDP IEEE 802.3 organizational
extension) on the local system known to this agent."
 ::= { lldpV2Xdot3LocalData 2 }
```

```
lldpV2Xdot3LocPowerEntry OBJECT-TYPE
SYNTAX      LldpV2Xdot3LocPowerEntry
MAX-ACCESS not-accessible
STATUS      current
DESCRIPTION
```

```
    "Information about a particular port component."
INDEX      { lldpV2LocPortIfIndex }
 ::= { lldpV2Xdot3LocPowerTable 1 }
```

```
LldpV2Xdot3LocPowerEntry ::= SEQUENCE {
    lldpV2Xdot3LocPowerPortClass      LldpV2PowerPortClass,
    lldpV2Xdot3LocPowerMDISupported   TruthValue,
    lldpV2Xdot3LocPowerMDIEnabled     TruthValue,
    lldpV2Xdot3LocPowerPairControlable TruthValue,
    lldpV2Xdot3LocPowerPairs          Unsigned32INTEGER,
    lldpV2Xdot3LocPowerClass          Unsigned32INTEGER,
    lldpV2Xdot3LocPowerType           INTEGERBITS,
    lldpV2Xdot3LocPowerSource         INTEGER,
    lldpV2Xdot3LocPowerPriority        INTEGER,
    lldpV2Xdot3LocPDRequestedPowerValue Integer32,
    lldpV2Xdot3LocPDRequestedPowerValueA Integer32,
    lldpV2Xdot3LocPDRequestedPowerValueB Integer32,
    lldpV2Xdot3LocPSEAllocatedPowerValue Integer32,
    lldpV2Xdot3LocPSEAllocatedPowerValueA Integer32,
    lldpV2Xdot3LocPSEAllocatedPowerValueB Integer32,
    lldpV2Xdot3LocPSEPoweringStatus   INTEGER,
    lldpV2Xdot3LocPDPoweredStatus     INTEGER,
    lldpV2Xdot3LocPowerPairsExt       INTEGER,
    lldpV2Xdot3LocPowerClassExtA      INTEGER,
    lldpV2Xdot3LocPowerClassExtB     INTEGER,
    lldpV2Xdot3LocPowerClassExt       INTEGER,
    lldpV2Xdot3LocPowerTypeExt        INTEGER,
    lldpV2Xdot3LocPDLoad               TruthValue,
    lldpV2Xdot3LocPD4PID               TruthValue,
    lldpV2Xdot3LocPSEMaxAvailPower    Integer32,
    lldpV2Xdot3LocPSEAutoclassSupport  TruthValue,
    lldpV2Xdot3LocPSEAutoclassCompleted TruthValue,
    lldpV2Xdot3LocPSEAutoclassRequest  TruthValue,
    lldpV2Xdot3LocPowerDownRequest     INTEGER,
    lldpV2Xdot3LocPowerDownTime        Integer32,
    lldpV2Xdot3LocMeasVoltageSupport   TruthValue,
    lldpV2Xdot3LocMeasCurrentSupport   TruthValue,
    lldpV2Xdot3LocMeasPowerSupport     TruthValue,
    lldpV2Xdot3LocMeasEnergySupport    TruthValue,
    lldpV2Xdot3LocMeasurementSource    TruthValue,
    lldpV2Xdot3LocMeasVoltageRequest   TruthValue,
    lldpV2Xdot3LocMeasCurrentRequest   TruthValue,
    lldpV2Xdot3LocMeasPowerRequest     TruthValue,
    lldpV2Xdot3LocMeasEnergyRequest    TruthValue,
    lldpV2Xdot3LocMeasVoltageValid     TruthValue,
    lldpV2Xdot3LocMeasCurrentValid     TruthValue,
    lldpV2Xdot3LocMeasPowerValid       TruthValue,
    lldpV2Xdot3LocMeasEnergyValid      TruthValue,
    lldpV2Xdot3LocMeasVoltageUncertainty Integer32,
    lldpV2Xdot3LocMeasCurrentUncertainty Integer32,
    lldpV2Xdot3LocMeasPowerUncertainty Integer32,
    lldpV2Xdot3LocMeasEnergyUncertainty Integer32,
    lldpV2Xdot3LocVoltageMeasurement  Integer32,
    lldpV2Xdot3LocCurrentMeasurement   Integer32,
    lldpV2Xdot3LocPowerMeasurement     Integer32,
    lldpV2Xdot3LocEnergyMeasurement    Integer32,
    lldpV2Xdot3LocPSEPowerPriceIndex   Integer32,
```

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```
    lldpV2Xdot3LocResponseTime        Integer32,
    lldpV2Xdot3LocReady                 TruthValue,
    lldpV2Xdot3LocReducedOperationPowerValue Integer32
}
```

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```
lldpV2Xdot3LocPowerPortClass OBJECT-TYPE
SYNTAX      LldpV2PowerPortClass
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The value that identifies the port Class of the given port
    associated with the local system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.5"
 ::= { lldpV2Xdot3LocPowerEntry 1 }
```

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```
lldpV2Xdot3LocPowerMDISupported OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "For a PSE, the truth value used to indicate whether the MDI
    power is
    supported on the given port associated with the
    local system. For a PD, this attribute is undefined."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.6"
 ::= { lldpV2Xdot3LocPowerEntry 2 }
```

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```
lldpV2Xdot3LocPowerMDIEnabled OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "For a PSE, The truth value used to identify whether MDI
    power is
    enabled on the given port associated with the
    local system. For a PD, this attribute is undefined."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.7"
 ::= { lldpV2Xdot3LocPowerEntry 3 }
```

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```
lldpV2Xdot3LocPowerPairControlable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "A truth value used to indicate the ability to control which
    PSE Pinout Alternative (see IEEE Std 802.3, 33.2.3 and 145.2.4)
    is used for PD detection and power. For a PSE, this attribute
    contains the value of the aPSEPowerPairsControlAbility attribute
    (see IEEE Std 802.3, 30.9.1.1.3). For a PD, the contents of this
    value of
    this attribute are undefined. pethPsePortPowerPairsControlAbility object (defined in
    Clause 8) and is used to indicate whether the pair selection
    can be controlled on the given port associated with the
    local system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.8"
 ::= { lldpV2Xdot3LocPowerEntry 4 }
```

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```
lldpV2Xdot3LocPowerPairs OBJECT-TYPE
SYNTAX      INTEGER {
    signal(0),
    spare(1)
}
SYNTAX      Unsigned32(1|2)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute identifies the PSE Pinout Alternative
    (see IEEE Std 802.3, 33.2.3 and 145.2.4) in use for detecting
    and supplying power to the PD.
    For a PSE, this attribute contains a value derived from the
    aPSEPowerPairs attribute (see IEEE Std 802.3, 30.9.1.1.4).
    For a PD, the contents of this attribute are undefined.
    A Type 3 or Type 4 PSE detecting or supplying power on both PSE
```

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Pinout Alternatives may return either PSE Pinout Alternative as this configuration is communicated through the allLdpXdot3LocPowerPairsExt attribute. A Type 3 or Type 4 PSE supplying power on only one PSE Pinout Alternative returns that PSE Pinout Alternative. For a PD, the contents of this attribute are undefined. This object contains the value of the pethPsePortPowerPairs object (defined in Clause 8) which is associated with the given port on the local system."

REFERENCE
"IEEE Std 802.3-30 IEEE Std 802.3, 30.12.2.1.9"
::= { 11dpV2Xdot3LocPowerEntry 5 }

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11dpV2Xdot3LocPowerClass OBJECT-TYPE
SYNTAX ~~Unsigned32~~INTEGER(1+2+3+4+5) {
class0(0),
class1(1),
class2(2),
class3(3),
class4(4)
}

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute identifies the requested Class of the PD as specified in IEEE Std 802.3, 33.2.6 and 145.2.8. This attribute returns an enumeration of 'class4' for a PD of Class 4 or higher as such PD Classes are identified through the allLdpXdot3LocPowerClassExt attribute. This object contains the value of the pethPsePortPowerClassifications object (defined in Clause 8) which is associated with the given port on the local system."

REFERENCE
"IEEE Std 802.3-30 IEEE Std 802.3, 30.12.2.1.10"
::= { 11dpV2Xdot3LocPowerEntry 6 }

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11dpV2Xdot3LocPowerType OBJECT-TYPE
SYNTAX ~~INTEGER~~BITS {
psetype1+type1p(0),
psetype2+pdpse(1),
pdtype(2),
pdtype2(3)
}

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A This attribute that returns a bit string indicating whether the local system is a PSE or a PD and whether it is Type 1 or greater than Type 1. The first bit ('type1') indicates Type 1 or greater than Type 1. The second bit ('pdpse') indicates PSE or PD. GET returns an integer indicating whether the local system is a PSE or a PD and whether it is Type 1 or Type 2."

REFERENCE
"IEEE Std 802.3-30 IEEE Std 802.3, 30.12.2.1.14"
::= { 11dpV2Xdot3LocPowerEntry 7 }

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11dpV2Xdot3LocPowerSource OBJECT-TYPE
SYNTAX INTEGER {
pseprimary(0),
psebackup(1),
pseunknown(2),
pdpseandlocal(3),
pdpseonly(4),
pdunknown(5)
}

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A GET returns an integer indicating the power sources of the local system. A PSE indicates whether it is being powered by a primary power source; a backup power source; or unknown. A PD indicates whether it is being powered by a PSE and locally; by a PSE only; or unknown."

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REFERENCE

~~"IEEE Std 802.3-30 IEEE Std 802.3, 30.12.2.1.15"~~
~~::= { lldpV2Xdot3LocPowerEntry 8 }~~

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lldpV2Xdot3LocPowerPriority OBJECT-TYPE

SYNTAX INTEGER {
low(0),
high(1),
critical(2),
unknown(3)
}

MAX-ACCESS read-write
STATUS current

DESCRIPTION

"A GET returns the priority of a PD system. For a PSE, this is the priority that the PSE assigns to the PD. For a PD, this is the priority that the PD requests from the PSE. A SET operation changes the priority of the PD system to the indicated value."

REFERENCE

~~"IEEE Std 802.3-30 IEEE Std 802.3, 30.12.2.1.16"~~
~~::= { lldpV2Xdot3LocPowerEntry 9 }~~

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lldpV2Xdot3LocPDRrequestedPowerValue OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"A GET returns the PD requested power value in units of 0.1W. For a PD, it is the power value that the PD has currently requested from the remote system. PD requested power value is the maximum input average power the PD ever draws under this power allocation if accepted. For a PSE, it is the power value that the PSE ~~mirrors echoes~~ back to the remote system. This is the PD requested power value that was used by the PSE to compute the power it has currently allocated to the remote system.

~~The PD requested power value is encoded according to IEEE Std 802.3 Equation (7921), where X is the decimal value of~~
~~lldpV2Xdot3LocPDRrequestedPowerValue."~~

REFERENCE

~~"IEEE Std 802.3-30 IEEE Std 802.3, 30.12.2.1.17"~~
~~::= { lldpV2Xdot3LocPowerEntry 10 }~~

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~~lldpV2Xdot3LocPDRrequestedPowerValueA OBJECT-TYPE~~

~~SYNTAX Integer32~~
~~MAX-ACCESS read-only~~
~~STATUS current~~

~~DESCRIPTION~~

~~"A GET returns the PD requested power value for the Mode A pairset in units of 0.1 W. For a PD, it is the power value that the PD has currently requested from the remote system for the Mode A pairset. For a PSE, it is the power value for the Alternative A pairset that the PSE echoes back to the remote system."~~

~~REFERENCE~~

~~"IEEE Std 802.3, 30.12.2.1.18"~~
~~::= { lldpV2Xdot3LocPowerEntry 11 }~~

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~~lldpV2Xdot3LocPDRrequestedPowerValueB OBJECT-TYPE~~

~~SYNTAX Integer32~~
~~MAX-ACCESS read-only~~
~~STATUS current~~

~~DESCRIPTION~~

~~"A GET returns the PD requested power value for the Mode B pairset in units of 0.1 W. For a PD, it is the power value that the PD has currently requested from the remote system for the Mode B pairset. For a PSE, it is the power value for the Alternative B pairset that the PSE echoes back to the remote system."~~

~~REFERENCE~~

~~"IEEE Std 802.3, 30.12.2.1.20"~~
~~::= { lldpV2Xdot3LocPowerEntry 12 }~~

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lldpV2Xdot3LocPSEAllocatedPowerValue OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"A GET returns the PSE allocated power value in units of 0.1W.
For a PSE, it is the power value that the PSE has currently
allocated to the remote system. The PSE allocated power value
is the maximum input average power that the PSE wants the PD
to ever draw under this allocation if it is accepted. For a PD,
it is the power value that the PD ~~mirrors~~ echoes back to the remote
system. This is the PSE allocated power value that was used by
the PD to compute the power that it has currently requested from
the remote system." ~~The PSE allocated power value is encoded
according to IEEE Std 802.3 Equation (7922), where X is the
decimal value of alldpV2Xdot3LocPSEAllocatedPowerValue.~~

REFERENCE

~~IEEE Std 802.3 30~~IEEE Std 802.3, 30.12.2.1.1020"

::= { lldpV2Xdot3LocPowerEntry 14 }

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lldpV2Xdot3LocPSEAllocatedPowerValueA OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"A GET returns the PSE allocated power value for the
Alternative A pairset in units of 0.1 W.
For a PSE, it is the power value for the Alternative A pairset
that the PSE has currently allocated to the remote system.
For a PD, it is the power value for the Mode A pairset that
the PD echoes back to the remote system."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.21"

::= { lldpV2Xdot3LocPowerEntry 14 }

lldpV2Xdot3LocPSEAllocatedPowerValueB OBJECT-TYPE

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"A GET returns the PSE allocated power value for the
Alternative B pairset in units of 0.1 W.
For a PSE, it is the power value for the Alternative B pairset
that the PSE has currently allocated to the remote system.
For a PD, it is the power value for the Mode B pairset that
the PD echoes back to the remote system."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.22"

::= { lldpV2Xdot3LocPowerEntry 15 }

lldpV2Xdot3LocPSEPoweringStatus OBJECT-TYPE

SYNTAX INTEGER {
4PdualsigPD(0),
4PsingleSigPD(1),
2P(2)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the powering status of the PSE.
For a PD, the contents of this attribute are undefined."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.23"

::= { lldpV2Xdot3LocPowerEntry 16 }

lldpV2Xdot3LocPDPoweredStatus OBJECT-TYPE

SYNTAX INTEGER {
4PdualsigPD(0),
2PdualsigPD(1),
singleSigPD(2)
}

MAX-ACCESS read-only

```

STATUS      current
DESCRIPTION
    "This attribute indicates the powering status of the PD.
    For a PSE, the contents of this attribute are undefined."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.24"
    ::= ( lldpV2Xdot3LocPowerEntry 17 )

lldpV2Xdot3LocPowerPairsExt  OBJECT-TYPE
SYNTAX      INTEGER {
    altA(0),
    altB(1),
    both(2)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute identifies the supported PSE Pinout Alternative
    specified in IEEE Std 802.3, 145.2.4.
    For a PSE, this attribute contains the value of the apsePowerPairs
    attribute (see IEEE Std 802.3, 30.9.1.1.4).
    For a PD, the contents of this attribute are undefined."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.25"
    ::= ( lldpV2Xdot3LocPowerEntry 18 )

lldpV2Xdot3LocPowerClassExtA  OBJECT-TYPE
SYNTAX      INTEGER {
    singlesig(0),
    class1(1),
    class2(2),
    class3(3),
    class4(4),
    class5(5)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "For a dual-signature PD, this attribute indicates the
    requested Class for Mode A during Physical Layer Classification
    (see IEEE Std 802.3, 145.3.6).
    For a single-signature PD, this attribute is set to 'singlesig'.
    For a PSE connected to a dual-signature PD, this attribute
    indicates the currently assigned Class for Mode A
    (see IEEE Std 802.3, 145.2.8).
    For a PSE connected to a single-signature PD or a PSE that operates
    only in 2-pair mode, this attribute is set to 'singlesig'."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.26"
    ::= ( lldpV2Xdot3LocPowerEntry 19 )

lldpV2Xdot3LocPowerClassExtB  OBJECT-TYPE
SYNTAX      INTEGER {
    singlesig(0),
    class1(1),
    class2(2),
    class3(3),
    class4(4),
    class5(5)
}
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "For a dual-signature PD, this attribute indicates the
    requested Class for Mode B during Physical Layer Classification
    (see IEEE Std 802.3, 145.3.6).
    For a single-signature PD, this attribute is set to 'singlesig'.
    For a PSE connected to a dual-signature PD, this attribute
    indicates the currently assigned Class for Mode B
    (see IEEE Std 802.3, 145.2.8).
    For a PSE connected to a single-signature PD or a PSE that operates
    only in 2-pair mode, this attribute is set to 'singlesig'."
REFERENCE

```

"IEEE Std 802.3, 30.12.2.1.27"
 ::= { lldpV2Xdot3LocPowerEntry 20 }

lldpV2Xdot3LocPowerClassExt OBJECT-TYPE

SYNTAX INTEGER {
 dualsig(0),
 class1(1),
 class2(2),
 class3(3),
 class4(4),
 class5(5),
 class6(6),
 class7(7),
 class8(8)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For a single-signature PD, this attribute indicates the requested Class during Physical Layer Classification (see IEEE Std 802.3, 145.3.6).
 For a dual-signature PD, this attribute is set to 'dualsig'.
 For a PSE connected to a single-signature PD or a PSE that operates only in 2-pair mode, this attribute indicates the currently assigned Class (see IEEE Std 802.3, 145.2.8).
 For a PSE connected to a dual-signature PD, this attribute is set to 'dualsig'."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.28"
 ::= { lldpV2Xdot3LocPowerEntry 21 }

lldpV2Xdot3LocPowerTypeExt OBJECT-TYPE

SYNTAX INTEGER {
 type4dualsigPD(0),
 type4singlePD(1),
 type3dualsigPD(2),
 type3singlePD(3),
 type4PSE(4),
 type3PSE(5)
 }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicate if the local system is a Type 3 or Type 4 PSE or PD and, in the case of a Type 3 or Type 4 PD, if it is a single-signature PD or a dual-signature PD."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.29"
 ::= { lldpV2Xdot3LocPowerEntry 22 }

lldpV2Xdot3LocPDLoad OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For a dual-signature PD, this attribute indicates whether the load of a dual-signature PD is electrically isolated, as defined in IEEE Std 802.3, 79.3.2.10.2.
 For a single-signature PD or a PSE, the value of this attribute is FALSE."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.30"
 ::= { lldpV2Xdot3LocPowerEntry 23 }

lldpV2Xdot3LocPD4PID OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates whether the local PD system supports powering of both PD Modes."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.31"

```
 ::= ( lldpV2Xdot3LocPowerEntry 24 )

lldpV2Xdot3LocPSEMaxAvailPower OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute reports the local PSE maximum available power
    value in units of 0.1 W."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.32"
 ::= ( lldpV2Xdot3LocPowerEntry 25 )

lldpV2Xdot3LocPSEAutoclassSupport OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates whether the local PSE system supports
    Autoclass."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.33"
 ::= ( lldpV2Xdot3LocPowerEntry 26 )

lldpV2Xdot3LocPSEAutoclassCompleted OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates whether the local PSE system has
    completed the Autoclass measurement."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.34"
 ::= ( lldpV2Xdot3LocPowerEntry 27 )

lldpV2Xdot3LocPSEAutoclassRequest OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates whether the local PSE system is
    requesting an Autoclass measurement and power budget
    adjustment."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.35"
 ::= ( lldpV2Xdot3LocPowerEntry 28 )

lldpV2Xdot3LocPowerDownRequest OBJECT-TYPE
SYNTAX      INTEGER
MAX-ACCESS  write-only
STATUS      current
DESCRIPTION
    "This attribute indicates the local PD system is requesting
    a power down when the value is 0x1D."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.36"
 ::= ( lldpV2Xdot3LocPowerEntry 29 )

lldpV2Xdot3LocPowerDownTime OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  write-only
STATUS      current
DESCRIPTION
    "This attribute indicates the number of seconds the PD requests
    to stay powered off. A value of zero indicates an
    indefinite amount of time."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.37"
 ::= ( lldpV2Xdot3LocPowerEntry 30 )

lldpV2Xdot3LocMeasVoltageSupport OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
```

```
STATUS current
DESCRIPTION
  "This attribute indicates the local device is capable of
  providing a voltage measurement. "
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.38"
  ::= ( lldpV2Xdot3LocPowerEntry 31 )

lldpV2Xdot3LocMeasCurrentSupport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This attribute indicates the local device is capable of
  providing a current measurement. "
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.39"
  ::= ( lldpV2Xdot3LocPowerEntry 32 )

lldpV2Xdot3LocMeasPowerSupport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This attribute indicates the local device is capable of
  providing a power measurement."
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.40"
  ::= ( lldpV2Xdot3LocPowerEntry 33 )

lldpV2Xdot3LocMeasEnergySupport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This attribute indicates the local device is capable of
  providing an energy measurement."
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.41"
  ::= ( lldpV2Xdot3LocPowerEntry 34 )

lldpV2Xdot3LocMeasurementSource OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS write-only
STATUS current
DESCRIPTION
  "This attribute indicates to local device on which Alternative
  or Mode the measurement is to be taken."
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.42"
  ::= ( lldpV2Xdot3LocPowerEntry 35 )

lldpV2Xdot3LocMeasVoltageRequest OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This attribute indicates the local device is requesting
  a voltage measurement from the remote device."
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.43"
  ::= ( lldpV2Xdot3LocPowerEntry 36 )

lldpV2Xdot3LocMeasCurrentRequest OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This attribute indicates the local device is requesting
  a current measurement from the remote device."
REFERENCE
  "IEEE Std 802.3, 30.12.2.1.44"
  ::= ( lldpV2Xdot3LocPowerEntry 37 )
```

lldpV2Xdot3LocMeasPowerRequest OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the local device is requesting
a power measurement from the remote device."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.45"

::= { lldpV2Xdot3LocPowerEntry 38 }

lldpV2Xdot3LocMeasEnergyRequest OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the local device is requesting
energy measurement from the remote device."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.46"

::= { lldpV2Xdot3LocPowerEntry 39 }

lldpV2Xdot3LocMeasVoltageValid OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the local device's voltage measurement
is valid."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.47"

::= { lldpV2Xdot3LocPowerEntry 40 }

lldpV2Xdot3LocMeasCurrentValid OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the local device's current measurement
is valid."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.48"

::= { lldpV2Xdot3LocPowerEntry 41 }

lldpV2Xdot3LocMeasPowerValid OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the local device's power measurement
is valid."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.49"

::= { lldpV2Xdot3LocPowerEntry 42 }

lldpV2Xdot3LocMeasEnergyValid OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the local device's energy measurement
is valid."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.50"

::= { lldpV2Xdot3LocPowerEntry 43 }

lldpV2Xdot3LocMeasVoltageUncertainty OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the expanded uncertainty

(coverage factor $k = 2$) for the device's voltage measurement.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.51"
::= { lldpV2Xdot3LocPowerEntry 44 }

lldpV2Xdot3LocMeasCurrentUncertainty OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the expanded uncertainty
(coverage factor $k = 2$) for the device's current measurement.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.52"
::= { lldpV2Xdot3LocPowerEntry 45 }

lldpV2Xdot3LocMeasPowerUncertainty OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the expanded uncertainty
(coverage factor $k = 2$) for the device's power measurement.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.53"
::= { lldpV2Xdot3LocPowerEntry 46 }

lldpV2Xdot3LocMeasEnergyUncertainty OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the expanded uncertainty
(coverage factor $k = 2$) for the device's energy measurement.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.54"
::= { lldpV2Xdot3LocPowerEntry 47 }

lldpV2Xdot3LocVoltageMeasurement OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the measured device voltage.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.55"
::= { lldpV2Xdot3LocPowerEntry 48 }

lldpV2Xdot3LocCurrentMeasurement OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the measured device current.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.56"
::= { lldpV2Xdot3LocPowerEntry 49 }

lldpV2Xdot3LocPowerMeasurement OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This attribute indicates the measured device power.
See IEEE Std 802.3, Table 79-21."
REFERENCE
"IEEE Std 802.3, 30.12.2.1.57"

::= (lldpV2Xdot3LocPowerEntry 50)

lldpV2Xdot3LocEnergyMeasurement OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the measured device energy.
See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.58"

::= (lldpV2Xdot3LocPowerEntry 51)

lldpV2Xdot3LocPSEPowerPriceIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates an index of the price of power being
sourced by the PSE. For a PD, this value is undefined."

REFERENCE

"IEEE Std 802.3, 30.12.2.1.59"

::= (lldpV2Xdot3LocPowerEntry 52)

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lldpV2Xdot3LocResponseTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A GET returns the response time in seconds of the local system.
For a PD, it is the maximum time required to update the value of
lldpV2Xdot3LocPDRequestedPowerValue when the remote system
requests the PD to change its max power draw. For a PSE, it is
the maximum time required to update the value of
lldpV2Xdot3LocPDRequestedPowerValue when the remote system
requests of the PSE a new power value."

REFERENCE

"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.2.1.1960"

::= (lldpV2Xdot3LocPowerEntry 53)

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lldpV2Xdot3LocReady OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The truth value used to identify whether the local Data Link Layer
classification engine has completed initialization and is ready to
receive and transmit LLDPUs."

REFERENCE

"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.2.1.2061"

::= (lldpV2Xdot3LocPowerEntry 54)

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lldpV2Xdot3LocReducedOperationPowerValue OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A GET returns the reduced operation power value. For a PD, it
is a power value that is lower than the currently requested
power value. This reduced operation power value represents a
power state in which the PD could continue to operate, but with
less functionality than at the current PD requested power value.
The PSE could optionally use this information in the event that
the PSE subsequently requests a lower PD power value than the
PD requested power value. For a PSE, it is a power value that the
PSE could ask the PD to move to if the PSE wants the PD to move
to a lower power state. The definition and encoding of PD
requested power value is the same as described in
lldpV2Xdot3LocPDRequestedPowerValue. The default value for this
field is the hexadecimal value FFFF"

REFERENCE


```

-----"IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.21"
--:= { lldpV2Xdot3LocPowerEntry 14 }

---
---
--- lldpV2Xdot3LocMaxFrameSizeTable: Maximum Frame Size information
--- V2 modified to be indexed by ifIndex.
---
---
lldpV2Xdot3LocMaxFrameSizeTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3LocMaxFrameSizeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains one row per port of maximum frame
    size information (as a part of the LLDP IEEE 802.3 organizational
    extension) on the local system known to this agent."
::= { lldpV2Xdot3LocalData 3 }

lldpV2Xdot3LocMaxFrameSizeEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3LocMaxFrameSizeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Maximum Frame Size information about a particular port
    component."
INDEX { lldpV2LocPortIfIndex }
::= { lldpV2Xdot3LocMaxFrameSizeTable 1 }

lldpV2Xdot3LocMaxFrameSizeEntry ::= SEQUENCE {
    lldpV2Xdot3LocMaxFrameSize Unsigned32
}

lldpV2Xdot3LocMaxFrameSize OBJECT-TYPE
SYNTAX Unsigned32(0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "An integer value indicating the maximum supported frame
    size in octets on the given port of the local system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.2.1.13"
::= { lldpV2Xdot3LocMaxFrameSizeEntry 1 }

---
---
--- lldpV2Xdot3LocEETTable: Energy Efficient Ethernet Information Table
--- V2 modified to be indexed by ifIndex.
---
---
lldpV2Xdot3LocEETTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3LocEETEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains one row per port of Energy Efficient Ethernet
    information (as a part of the LLDP IEEE 802.3 organizational
    extension) on the local system known to this agent."
::= { lldpV2Xdot3LocalData 4 }

lldpV2Xdot3LocEETEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3LocEETEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a particular port component."
INDEX { lldpV2LocPortIfIndex }
::= { lldpV2Xdot3LocEETTable 1 }

lldpV2Xdot3LocEETEntry ::= SEQUENCE {
    lldpV2Xdot3LocTxTwSys Integer32,
    lldpV2Xdot3LocTxTwSysEcho Integer32,

```

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```
11dpV2Xdot3LocRxTwSys      Integer32,
11dpV2Xdot3LocRxTwSysEcho  Integer32,
11dpV2Xdot3LocFbTwSys     Integer32,
11dpV2Xdot3TxDllReady     TruthValue,
11dpV2Xdot3RxDllReady     TruthValue,
11dpV2Xdot3LocDllEnabled  TruthValue,
11dpV2Xdot3LocTxFw        TruthValue,
11dpV2Xdot3LocTxFwEcho    TruthValue,
11dpV2Xdot3LocRxFw        TruthValue,
11dpV2Xdot3LocRxFwEcho    TruthValue,
11dpV2Xdot3LocPreemptSupported TruthValue,
11dpV2Xdot3LocPreemptEnabled TruthValue,
11dpV2Xdot3LocPreemptActive TruthValue,
11dpV2Xdot3LocAddFragSize Integer32
```

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```
}
11dpV2Xdot3LocTxTwSys      OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"A GET returns the value of Tw_sys_tx that the local system
can support in the transmit direction.
This object maps to the variable LocTxSystemValue as defined
in IEEE Std 802.3, 78.4.2.3."
```

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```
REFERENCE
"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.2.1.2262"
 ::= { 11dpV2Xdot3LocEEEEntry 1 }
```

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```
11dpV2Xdot3LocTxTwSysEcho  OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"A GET returns the value of Tw_sys_tx that the remote system is
advertising that it can support in the transmit direction and is
echoed by the local system under the control of the EEE DLL receiver
state diagram. This object maps to the variable
LocTxSystemValueEcho as defined in IEEE Std 802.3, 78.4.2.3"
```

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```
REFERENCE
"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.2.1.2263"
 ::= { 11dpV2Xdot3LocEEEEntry 2 }
```

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```
11dpV2Xdot3LocRxTwSys      OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"A GET returns the value of Tw_sys_tx that
the local system is requesting in the receive direction.
This object maps to the variable LocRxSystemValue as
defined in IEEE Std 802.3, 78.4.2.3."
```

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```
REFERENCE
"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.2.1.2464"
 ::= { 11dpV2Xdot3LocEEEEntry 3 }
```

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```
11dpV2Xdot3LocRxTwSysEcho  OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"A GET returns the value of Tw_sys_tx that
the remote system is advertising that it is requesting in the
receive direction and is echoed by the local system under the
control of the EEE DLL transmitter state diagram. This object
maps to the variable LocRxSystemValueEcho as defined in
IEEE Std 802.3 78.4.2.3."
```

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```
REFERENCE
"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.2.1.2465"
 ::= { 11dpV2Xdot3LocEEEEntry 4 }
```

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```
11dpV2Xdot3LocFbTwSys      OBJECT-TYPE
```

```
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"A GET returns the value of the fallback Tw_sys_tx
that the local system is advertising to the remote system.
This object maps to the variable LocFbSystemValue as defined
in IEEE Std 802.3 78.4.2.3."
```

```
REFERENCE
"IEEE Std 802.3 30IEEE Std 802.3, 30.12.2.1.626"
::= {lldpV2Xdot3LocEEEEntry 5 }
```

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```
lldpV2Xdot3TxDllReady      OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"The truth value used to identify whether the local Data Link Layer
EEE layer management function has completed initialization and
is ready to receive and transmit LLDPDUs."
```

```
REFERENCE
"IEEE Std 802.3 30IEEE Std 802.3, 30.12.2.1.276"
::= {lldpV2Xdot3LocEEEEntry 6 }
```

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```
lldpV2Xdot3RxDllReady      OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"The truth value used to identify whether the local Data Link Layer
EEE layer management function has completed initialization and
is ready to receive and transmit LLDPDUs."
```

```
REFERENCE
"IEEE Std 802.3 30IEEE Std 802.3, 30.12.2.1.286"
::= {lldpV2Xdot3LocEEEEntry 7 }
```

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```
lldpV2Xdot3LocDllEnabled   OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"The truth value used to identify whether the local system has
completed auto-negotiation with a link partner that has
indicated at least one EEE capability."
```

```
REFERENCE
"IEEE Std 802.3 30IEEE Std 802.3, 30.12.2.1.296"
::= {lldpV2Xdot3LocEEEEntry 8 }
```

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```
lldpV2Xdot3LocTxFw         OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This value identifies the LPI FW value that the local system can
support in the transmit direction. This attribute maps to
variable LocTxSystemFW as defined in IEEE Std 802.3, 78.4.2.3."
```

```
REFERENCE
"IEEE Std 802.3, 30.12.2.1.70"
::= {lldpV2Xdot3LocEEEEntry 9 }
```

```
lldpV2Xdot3LocTxFwEcho     OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
"This value identifies the LPI FW value advertised by the remote
system and echoed by the local system. This attribute maps to
variable LocTxSystemFWEcho as defined in IEEE Std 802.3, 78.4.2.3."
```

```
REFERENCE
"IEEE Std 802.3, 30.12.2.1.71"
::= {lldpV2Xdot3LocEEEEntry 10 }
```

```
lldpV2Xdot3LocRxFw         OBJECT-TYPE
```

```

SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This value identifies the LPI FW value that the local system is
    requesting in the receive direction. This attribute maps to
    variable LocRxSystemFW as defined in IEEE Std 802.3, 78.4.2.3."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.72"
 ::= {lldpV2Xdot3LocEEEEEntry 11 }

lldpV2Xdot3LocRxFwEcho      OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This value identifies the LPI FW value requested by the remote
    system and echoed by the local system. This attribute maps to
    variable LocRxSystemFWEcho as defined in IEEE Std 802.3, 78.4.2.3."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.73"
 ::= {lldpV2Xdot3LocEEEEEntry 12 }

lldpV2Xdot3LocPreemptSupported  OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to identify whether the local system
    supports the preemption capability."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.74"
 ::= {lldpV2Xdot3LocEEEEEntry 13 }

lldpV2Xdot3LocPreemptEnabled  OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to identify whether the preemption
    capability is enabled on the local system."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.75"
 ::= {lldpV2Xdot3LocEEEEEntry 14 }

lldpV2Xdot3LocPreemptActive  OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to identify whether the preemption
    capability is active on the local system."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.76"
 ::= {lldpV2Xdot3LocEEEEEntry 15 }

lldpV2Xdot3LocAddFragSize  OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This value indicates the minimum size of non-final
    fragments supported by the local system. This value
    is expressed in units of 64 octets of additional
    fragment length."
REFERENCE
    "IEEE Std 802.3, 30.12.2.1.77"
 ::= {lldpV2Xdot3LocEEEEEntry 16 }

```

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```

-----
-- IEEE 802.3 - Remote Devices Information
-----

---
---
--- lldpV2Xdot3RemPortTable: Ethernet Information Table
--- V2 modified to be indexed by ifIndex and destination MAC address.
---
---

lldpV2Xdot3RemPortTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3RemPortEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains Ethernet port information (as a part
    of the LLDP IEEE 802.3 organizational extension) of the remote
    system."
 ::= { lldpV2Xdot3RemoteData 1 }

lldpV2Xdot3RemPortEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3RemPortEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a particular physical network connection."
INDEX { lldpV2RemTimeMark,
        lldpV2RemLocalIfIndex,
        lldpV2RemLocalDestMACAddress,
        lldpV2RemIndex }
 ::= { lldpV2Xdot3RemPortTable 1 }

LldpV2Xdot3RemPortEntry ::= SEQUENCE {
    lldpV2Xdot3RemPortAutoNegSupported TruthValue,
    lldpV2Xdot3RemPortAutoNegEnabled TruthValue,
    lldpV2Xdot3RemPortAutoNegAdvertisedCap OCTET STRING,
    lldpV2Xdot3RemPortOperMauType Unsigned32
}

lldpV2Xdot3RemPortAutoNegSupported OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The truth value used to indicate whether the given port
    (associated with remote system) supports Auto-negotiation."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.1"
 ::= { lldpV2Xdot3RemPortEntry 1 }

lldpV2Xdot3RemPortAutoNegEnabled OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The truth value used to indicate whether port
    Auto-negotiation is enabled on the given port associated
    with the remote system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.2"
 ::= { lldpV2Xdot3RemPortEntry 2 }

lldpV2Xdot3RemPortAutoNegAdvertisedCap OBJECT-TYPE
SYNTAX OCTET STRING(SIZE(2))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object contains the value (bitmap) of the
    ifMauAutoNegCapAdvertisedBits object (defined in IETF RFC
    3636) which is associated with the given port on the
    remote system."

```

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REFERENCE

"~~IEEE Std 802.3-30~~IEEE Std 802.3, 30.12.3.1.3"
 ::= { lldpV2Xdot3RemPortEntry 3 }

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lldpV2Xdot3RemPortOperMauType OBJECT-TYPE

SYNTAX Unsigned32(0..2147483647)
MAX-ACCESS read-only
STATUS current

DESCRIPTION

"An integer value that indicates the operational MAU type of the sending device.

This object contains the integer value derived from the list position of the corresponding dot3MauType as listed in Clause 13 and is equal to the last number in the respective dot3MauType OID.

For example, if the ifMauType object is dot3MauType1000BaseTHD which corresponds to {dot3MauType 29}, the numerical value of this field is 29. For MAU types not listed in Clause 13, the value of this field shall be set to zero."

REFERENCE

"~~IEEE Std 802.3-30~~IEEE Std 802.3, 30.12.3.1.4"
 ::= { lldpV2Xdot3RemPortEntry 4 }

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--- lldpV2Xdot3RemPowerTable: Power Ethernet Information Table
--- V2 modified to be indexed by ifIndex and destination MAC address.

lldpV2Xdot3RemPowerTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpV2Xdot3RemPowerEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION

"This table contains Ethernet power information (as a part of the LLDP IEEE 802.3 organizational extension) of the remote system."

::= { lldpV2Xdot3RemoteData 2 }

lldpV2Xdot3RemPowerEntry OBJECT-TYPE

SYNTAX LldpV2Xdot3RemPowerEntry
MAX-ACCESS not-accessible
STATUS current

DESCRIPTION

"Information about a particular physical network connection."

INDEX { lldpV2RemTimeMark,
 lldpV2RemLocalIfIndex,
 lldpV2RemLocalDestMACAddress,
 lldpV2RemIndex }

::= { lldpV2Xdot3RemPowerTable 1 }

LldpV2Xdot3RemPowerEntry ::= SEQUENCE {

lldpV2Xdot3RemPowerPortClass LldpV2PowerPortClass,
 lldpV2Xdot3RemPowerMDISupported TruthValue,
 lldpV2Xdot3RemPowerMDIEnabled TruthValue,
 lldpV2Xdot3RemPowerPairControlable TruthValue,
 lldpV2Xdot3RemPowerPairs Unsigned32,
 lldpV2Xdot3RemPowerClass Unsigned32,
 lldpV2Xdot3RemPowerType INTEGER,
 lldpV2Xdot3RemPowerSource INTEGER,
 lldpV2Xdot3RemPowerPriority INTEGER,
 lldpV2Xdot3RemPDRequestedPowerValue Integer32,
 lldpV2Xdot3RemPSEAllocatedPowerValue Integer32,
 lldpV2Xdot3RemPDRequestedPowerValueA Integer32,
 lldpV2Xdot3RemPDRequestedPowerValueB Integer32,
 lldpV2Xdot3RemPSEAllocatedPowerValue Integer32,
 lldpV2Xdot3RemPSEAllocatedPowerValueA Integer32,
 lldpV2Xdot3RemPSEAllocatedPowerValueB Integer32,
 lldpV2Xdot3RemPSEPoweringStatus INTEGER,

```

11dpV2Xdot3RemPDPoweredStatus      INTEGER,
11dpV2Xdot3RemPowerPairsExt         INTEGER,
11dpV2Xdot3RemPowerClassExtA        INTEGER,
11dpV2Xdot3RemPowerClassExtB        INTEGER,
11dpV2Xdot3RemPowerClassExt         INTEGER,
11dpV2Xdot3RemPowerTypeExt          INTEGER,
11dpV2Xdot3RemPDLoad                 TruthValue,
11dpV2Xdot3RemPD4PID                TruthValue,
11dpV2Xdot3RemPSEMaxAvailPower       Integer32,
11dpV2Xdot3RemPSEAutoclassSupport    TruthValue,
11dpV2Xdot3RemPSEAutoclassCompleted  TruthValue,
11dpV2Xdot3RemPSEAutoclassRequest    TruthValue,
11dpV2Xdot3RemPowerDownRequest       TruthValue,
11dpV2Xdot3RemPowerDownTime          TruthValue,
11dpV2Xdot3RemMeasVoltageSupport     TruthValue,
11dpV2Xdot3RemMeasCurrentSupport     TruthValue,
11dpV2Xdot3RemMeasPowerSupport       TruthValue,
11dpV2Xdot3RemMeasEnergySupport      TruthValue,
11dpV2Xdot3RemMeasurementSource      TruthValue,
11dpV2Xdot3RemMeasVoltageRequest     TruthValue,
11dpV2Xdot3RemMeasCurrentRequest     TruthValue,
11dpV2Xdot3RemMeasPowerRequest       TruthValue,
11dpV2Xdot3RemMeasEnergyRequest      TruthValue,
11dpV2Xdot3RemMeasVoltageValid       TruthValue,
11dpV2Xdot3RemMeasCurrentValid       TruthValue,
11dpV2Xdot3RemMeasPowerValid         TruthValue,
11dpV2Xdot3RemMeasEnergyValid        TruthValue,
11dpV2Xdot3RemMeasVoltageUncertainty Integer32,
11dpV2Xdot3RemMeasCurrentUncertainty Integer32,
11dpV2Xdot3RemMeasPowerUncertainty   Integer32,
11dpV2Xdot3RemMeasEnergyUncertainty  Integer32,
11dpV2Xdot3RemVoltageMeasurement     Integer32,
11dpV2Xdot3RemCurrentMeasurement     Integer32,
11dpV2Xdot3RemPowerMeasurement       Integer32,
11dpV2Xdot3RemEnergyMeasurement      Integer32,
11dpV2Xdot3RemPSEPowerPriceIndex     Integer32

```

```

)

```

```

11dpV2Xdot3RemPowerPortClass OBJECT-TYPE
SYNTAX      LldpV2PowerPortClass
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The value that identifies the port Class of the given port
    associated with the remote system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.5"
 ::= { 11dpV2Xdot3RemPowerEntry 1 }

```

```

11dpV2Xdot3RemPowerMDISupported OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to indicate whether the MDI power
    is supported on the given port associated with the remote
    system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.6"
 ::= { 11dpV2Xdot3RemPowerEntry 2 }

```

```

11dpV2Xdot3RemPowerMDIEnabled OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to identify whether MDI power is
    enabled on the given port associated with the remote system."
REFERENCE
    "IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.7"
 ::= { 11dpV2Xdot3RemPowerEntry 3 }

```

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lldpV2Xdot3RemPowerPairControlable OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This attribute indicates the ability to control which PSE Pinout Alternative (see IEEE Std 802.3, 33.2.3 and 145.2.4) is used for PD detection and power on the given port on the remote system. For a PD, this attribute contains the value of the aPSEPowerPairsControlAbility attribute (see IEEE Std 802.3, 30.9.1.1.3) on the given port on the remote system. For a PSE, the contents of this attribute are undefined. The truth value is derived from the value of pethPsePortPowerPairsControlAbility object (defined in Clause 8) and is used to indicate whether the pair selection can be controlled on the given port associated with the remote system."

REFERENCE

"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.3.1.8"

::= { lldpV2Xdot3RemPowerEntry 4 }

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lldpV2Xdot3RemPowerPairs OBJECT-TYPE

SYNTAX Unsigned32(1+2+BITS {
signal(0),
spare(1)
})

MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This object contains the value of the pethPsePortPowerPairs object (defined in Clause 8) which is associated with the given port on the remote system. attribute identifies the supported PSE Pinout Alternative (see IEEE Std 802.3, 33.2.3 and 145.2.4) in use for supplying power to the PD on the given port on the remote system. For a PD, this attribute contains a value derived from the aPSEPowerPairs attribute (see IEEE Std 802.3, 30.9.1.1.4) on the given port on the remote system. For a PSE, the contents of this attribute are undefined. When the remote system is a Type 3 or Type 4 PSE supplying power on both PSE Pinout Alternatives, the value of this attribute can indicate either pinout. If the aLldpXdot3RemPowerPairsExt attribute is available, it reports this configuration."

REFERENCE

"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.3.1.9"

::= { lldpV2Xdot3RemPowerEntry 5 }

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lldpV2Xdot3RemPowerClass OBJECT-TYPE

SYNTAX INTEGER {
class0(0),
class1(1),
class2(2),
class3(3),
class4(4)
}

SYNTAX Unsigned32(1+2+3+4+5)
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"This attribute identifies the requested Class of the PD as specified in IEEE Std 802.3, 33.2.6 and 145.2.8 on the given port on the remote system. This attribute returns an enumeration of 'class4' for a PD of Class 4 or higher as such PD Classes are identified through the aLldpXdot3RemPowerClassExt attribute. This object contains the value of the pethPsePortPowerClassifications object (defined in Clause 8) which is associated with the given port on the remote system."

REFERENCE

"IEEE Std 802.3-2015 IEEE Std 802.3, 30.12.3.1.10"

::= { lldpV2Xdot3RemPowerEntry 6 }

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lldpV2Xdot3RemPowerType OBJECT-TYPE


```
SYNTAX BITS {
    type1p(0),
    pdpse(1)
}
```

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```
SYNTAX INTEGER {
    psetype1(0),
    psetype2(1),
    pdtype(2),
    pdtype2(3)
}
```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"This attribute that returns a bit string indicating whether the remote system is a PSE or a PD and whether it is Type 1 or greater than Type 1. The first bit ('type1') indicates Type 1 or greater than Type 1. The second bit ('pdpse') indicates PSE or PD."

"A GET returns an integer indicating whether the remote system is a PSE or a PD and whether it is Type 1 or Type 2."

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```
REFERENCE
"IEEE Std 802.3-2011 IEEE Std 802.3, 30.12.3.1.14"
::= { lldpV2Xdot3RemPowerEntry 7 }
```

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```
lldpV2Xdot3RemPowerSource OBJECT-TYPE
```

```
SYNTAX INTEGER {
    pseprimary(0),
    psebackup(1),
    pseunknown(2),
    pdpseandlocal(3),
    pdlocalonly(4),
    pdpseonly(5),
    pdunknown(6)
}
```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"A GET returns an integer indicating the power sources of the remote system. When the remote system is a PSE, it indicates whether it is being powered by a primary power source; a backup power source; or unknown. When the remote system is a PD, it indicates whether it is being powered by a PSE and locally; locally only; by a PSE only; or unknown."

```
REFERENCE
"IEEE Std 802.3-2011 IEEE Std 802.3, 30.12.3.1.15"
::= { lldpV2Xdot3RemPowerEntry 8 }
```

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```
lldpV2Xdot3RemPowerPriority OBJECT-TYPE
```

```
SYNTAX INTEGER {
    low(0),
    high(1),
    critical(2),
    unknown(3)
}
```

```
MAX-ACCESS read-write
STATUS current
DESCRIPTION
```

"A GET returns the priority of a PD system. For a PSE, this is the priority that the remote system requests. For a PD, this is the priority that the remote system has assigned."

```
REFERENCE
"IEEE Std 802.3-2011 IEEE Std 802.3, 30.12.3.1.16"
::= { lldpV2Xdot3RemPowerEntry 9 }
```

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```
lldpV2Xdot3RemPDRrequestedPowerValue OBJECT-TYPE
```

```
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"A GET returns the PD requested power value that was used by the remote system to compute the power value that is currently allocated to the PD. For a PSE, it is the PD requested power value received from the remote system. The definition and

encoding of PD requested power value is the same as described in
lldpV2Xdot3LocPDRequestedPowerValue."

REFERENCE

~~"IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.17"~~

::= { lldpV2Xdot3RemPowerEntry 10 }

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lldpV2Xdot3RemPDRequestedPowerValueA OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute identifies the PD requested power value for
the Mode A pairset that was used by the remote system to
compute the power value that it has currently allocated to the
PD. For a PSE, it is the PD requested power value for the
Alternative A pairset received from the remote system. For a PD,
it is the PD requested power value for the Alternative A pairset
that the PSE echoes back to the remote system. The definition and
encoding of PD requested power value for the Mode A pairset is
the same as described in aLldpXdot3LocPDRequestedPowerValueA
(see IEEE Std 802.3, 30.12.2.1.18)."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.18"

::= { lldpV2Xdot3RemPowerEntry 11 }

lldpV2Xdot3RemPDRequestedPowerValueB OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute identifies the PD requested power value for
the Mode B pairset that was used by the remote system to
compute the power value that it has currently allocated to the
PD. For a PSE, it is the PD requested power value for the
Alternative B pairset received from the remote system. For a PD,
it is the PD requested power value for the Alternative B pairset
that the PSE echoes back to the remote system. The definition and
encoding of PD requested power value for the Mode B pairset is
the same as described in aLldpXdot3LocPDRequestedPowerValueB
(see IEEE Std 802.3, 30.12.2.1.19)."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.19"

::= { lldpV2Xdot3RemPowerEntry 12 }

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lldpV2Xdot3RemPSEAllocatedPowerValue OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A GET returns the PSE allocated power value
received from the remote system. For a PSE, it is the PSE allocated
power value that was used by the remote system to compute the power
value that it has currently requested from the PSE. For a PD, it
is the PSE allocated power value received from the remote system.
The definition and encoding of PSE allocated power value is
the same as described in lldpV2Xdot3LocPSEAllocatedPowerValueThis attribute identifies the PSE
allocated power value received

from the remote system. For a PSE, it is the PSE allocated power
value that was echoed back by the remote PD. For a PD, it is the
PSE allocated power value received from the remote system. The
definition and encoding of PSE allocated power value is the same
as described in aLldpXdot3LocPSEAllocatedPowerValue
(see IEEE Std 802.3, 30.12.2.1.20)."

REFERENCE

"IEEE Std 802.3-30IEEE Std 802.3, 30.12.3.1.1#20"

::= { lldpV2Xdot3RemPowerEntry 11-13 }

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lldpV2Xdot3RemPSEAllocatedPowerValueA OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute identifies the PSE allocated power value for the Alternative A pairset received from the remote system. For a PSE, it is the PSE allocated power value for the Alternative A pairset that was echoed back by the remote PD. For a PD, it is the PSE allocated power value for the Mode A pairset received from the remote system. The definition and encoding of PSE allocated power value for the Alternative A pairset is the same as described in allldpXdot3LocPSEAllocatedPowerValueA (see IEEE Std 802.3, 30.12.2.1.21)."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.21"

:= (lldpV2Xdot3RemPowerEntry 14)

lldpV2Xdot3RemPSEAllocatedPowerValueB OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute identifies the PSE allocated power value for the Alternative B pairset received from the remote system. For a PSE, it is the PSE allocated power value for the Alternative B pairset that was echoed back by the remote PD. For a PD, it is the PSE allocated power value for the Mode B pairset received from the remote system. The definition and encoding of PSE allocated power value for the Alternative B pairset is the same as described in allldpXdot3LocPSEAllocatedPowerValueB (see IEEE Std 802.3, 30.12.2.1.22)."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.22"

:= (lldpV2Xdot3RemPowerEntry 15)

lldpV2Xdot3RemPSEPoweringStatus OBJECT-TYPE

SYNTAX INTEGER {

4PdualsigPD(0),

4PsingleSigPD(1),

2P(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the powering status of the remote PSE. For a PSE, the contents of this attribute are undefined."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.23"

:= (lldpV2Xdot3RemPowerEntry 16)

lldpV2Xdot3RemPDPoweredStatus OBJECT-TYPE

SYNTAX INTEGER {

4PdualsigPD(0),

2PdualsigPD(1),

singleSigPD(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the powering status of the remote PD. For a PD, the contents of this attribute are undefined."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.24"

:= (lldpV2Xdot3RemPowerEntry 17)

lldpV2Xdot3RemPowerPairsExt OBJECT-TYPE

SYNTAX INTEGER {

altA(0),

altB(1),

both(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute identifies the supported PSE Pinout Alternative specified in IEEE Std 802.3, 145.2.4."

For a PD, this attribute contains the value of the aPSEPowerPairs attribute (see IEEE Std 802.3, 30.9.1.1.4) as sent by the remote PSE. For a PSE, the contents of this attribute are undefined."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.25"
 ::= { lldpV2Xdot3RemPowerEntry 18 }

lldpV2Xdot3RemPowerClassExtA OBJECT-TYPE

SYNTAX INTEGER {
 singlesig(0),
 class1(1),
 class2(2),
 class3(3),
 class4(4),
 class5(5)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For a dual-signature PD, this attribute indicates the currently assigned Class for Mode A by the remote 4-pair PSE.

For a single-signature PD or a dual-signature PD connected to a 2-pair only PSE, this attribute is set to 'singlesig' by the remote PSE.

For a PSE connected to a dual-signature PD, this attribute indicates the requested Class for Mode A during Physical Layer classification (see IEEE Std 802.3, 145.2.8) by the remote PD.

For a PSE connected to a single-signature PD, this attribute is set to 'singlesig' by the remote PD."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.26"
 ::= { lldpV2Xdot3RemPowerEntry 19 }

lldpV2Xdot3RemPowerClassExtB OBJECT-TYPE

SYNTAX INTEGER {
 singlesig(0),
 class1(1),
 class2(2),
 class3(3),
 class4(4),
 class5(5)
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For a dual-signature PD, this attribute indicates the currently assigned Class for Mode B by the remote 4-pair PSE.

For a single-signature PD or a dual-signature PD connected to a 2-pair only PSE, this attribute is set to 'singlesig' by the remote PSE.

For a PSE connected to a dual-signature PD, this attribute indicates the requested Class for Mode B during Physical Layer classification (see IEEE Std 802.3, 145.2.8) by the remote PD.

For a PSE connected to a single-signature PD, this attribute is set to 'singlesig' by the remote PD."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.27"
 ::= { lldpV2Xdot3RemPowerEntry 20 }

lldpV2Xdot3RemPowerClassExt OBJECT-TYPE

SYNTAX INTEGER {
 dualsig(0),
 class1(1),
 class2(2),
 class3(3),
 class4(4),
 class5(5),
 class6(6),
 class7(7),
 class8(8)
}

MAX-ACCESS read-only

STATUS current

```

DESCRIPTION
  "For a single-signature PD or a dual-signature PD connected to
  a 2-pair only PSE, this attribute indicates the currently
  assigned Class by the remote PSE.
  For a dual-signature PD connected to a 4-pair capable PSE, this
  attribute is set to 'dualsig' by the remote PSE.
  For a PSE connected to a single-signature PD, this attribute
  indicates the requested Class during Physical Layer classification
  (see IEEE Std 802.3, 145.2.8) by the remote PD.
  For a PSE connected to a dual-signature PD, this attribute is set to
  'dualsig' by the remote PD."

REFERENCE
  "IEEE Std 802.3, 30.12.3.1.28"
  ::= { lldpV2Xdot3RemPowerEntry 21 }

lldpV2Xdot3RemPowerTypeExt OBJECT-TYPE
SYNTAX      INTEGER {
              type4dualsigPD(0),
              type4singlesigPD(1),
              type3dualsigPD(2),
              type3singlesigPD(3),
              type4PSE(4),
              type3PSE(5)
            }
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute indicate if the remote system is a Type 3 or Type 4
  PSE or PD and, in the case of a Type 3 or Type 4 PD, if it is a
  single-signature PD or a dual-signature PD."

REFERENCE
  "IEEE Std 802.3, 30.12.3.1.29"
  ::= { lldpV2Xdot3RemPowerEntry 22 }

lldpV2Xdot3RemPDLoad OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "For a dual-signature PD, this attribute indicates whether the
  load of a dual-signature PD is electrically isolated, as defined
  in IEEE Std 802.3, 79.3.2.10.2.
  For a PD, the value of this attribute is FALSE."

REFERENCE
  "IEEE Std 802.3, 30.12.3.1.30"
  ::= { lldpV2Xdot3RemPowerEntry 23 }

lldpV2Xdot3RemPD4PID OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute indicates whether the remote PD system supports
  powering of both PD Modes."

REFERENCE
  "IEEE Std 802.3, 30.12.3.1.31"
  ::= { lldpV2Xdot3RemPowerEntry 24 }

lldpV2Xdot3RemPSEMaxAvailPower OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute reports the remote PSE maximum available power
  value in units of 0.1 W."

REFERENCE
  "IEEE Std 802.3, 30.12.3.1.32"
  ::= { lldpV2Xdot3RemPowerEntry 25 }

lldpV2Xdot3RemPSEAutoclassSupport OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current

```

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```

DESCRIPTION
  "This attribute indicates whether the remote PSE system supports
  Autoclass."
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.33"
  ::= { lldpV2Xdot3RemPowerEntry 26 }

lldpV2Xdot3RemPSEAutoclassCompleted OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute indicates whether the remote PSE system has
  completed the Autoclass measurement."
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.34"
  ::= { lldpV2Xdot3RemPowerEntry 27 }

lldpV2Xdot3RemPSEAutoclassRequest OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute indicates whether the remote PSE system is
  requesting an Autoclass measurement and power budget
  adjustment."
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.35"
  ::= { lldpV2Xdot3RemPowerEntry 28 }

lldpV2Xdot3RemPowerDownRequest OBJECT-TYPE
SYNTAX      INTEGER
MAX-ACCESS  write-only
STATUS      current
DESCRIPTION
  "This attribute indicates the remote PD system is requesting
  a power down when the value is 0x1D."
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.36"
  ::= { lldpV2Xdot3RemPowerEntry 29 }

lldpV2Xdot3RemPowerDownTime OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  write-only
STATUS      current
DESCRIPTION
  "This attribute indicates the number of seconds the remote PD
  requests to stay powered off. A value of zero indicates an
  indefinite amount of time."
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.37"
  ::= { lldpV2Xdot3RemPowerEntry 30 }

lldpV2Xdot3RemMeasVoltageSupport OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute indicates the remote device is capable of
  providing a voltage measurement. "
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.38"
  ::= { lldpV2Xdot3RemPowerEntry 31 }

lldpV2Xdot3RemMeasCurrentSupport OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "This attribute indicates the remote device is capable of
  providing a current measurement. "
REFERENCE
  "IEEE Std 802.3, 30.12.3.1.39"

```

```
 ::= ( 11dpV2Xdot3RemPowerEntry 32 )

11dpV2Xdot3RemMeasPowerSupport OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This attribute indicates the remote device is capable of
        providing a power measurement."
    REFERENCE
        "IEEE Std 802.3, 30.12.3.1.40"
 ::= ( 11dpV2Xdot3RemPowerEntry 33 )

11dpV2Xdot3RemMeasEnergySupport OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This attribute indicates the remote device is capable of
        providing an energy measurement."
    REFERENCE
        "IEEE Std 802.3, 30.12.3.1.41"
 ::= ( 11dpV2Xdot3RemPowerEntry 34 )

11dpV2Xdot3RemMeasurementSource OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  write-only
    STATUS      current
    DESCRIPTION
        "This attribute indicates to remote device on which Alternative
        or Mode the measurement is to be taken."
    REFERENCE
        "IEEE Std 802.3, 30.12.3.1.42"
 ::= ( 11dpV2Xdot3RemPowerEntry 35 )

11dpV2Xdot3RemMeasVoltageRequest OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This attribute indicates the remote device is requesting
        a voltage measurement from the local device."
    REFERENCE
        "IEEE Std 802.3, 30.12.3.1.43"
 ::= ( 11dpV2Xdot3RemPowerEntry 36 )

11dpV2Xdot3RemMeasCurrentRequest OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This attribute indicates the remote device is requesting
        a current measurement from the local device."
    REFERENCE
        "IEEE Std 802.3, 30.12.3.1.44"
 ::= ( 11dpV2Xdot3RemPowerEntry 37 )

11dpV2Xdot3RemMeasPowerRequest OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This attribute indicates the remote device is requesting
        a power measurement from the local device."
    REFERENCE
        "IEEE Std 802.3, 30.12.3.1.45"
 ::= ( 11dpV2Xdot3RemPowerEntry 38 )

11dpV2Xdot3RemMeasEnergyRequest OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
```

```

    "This attribute indicates the remote device is requesting
    energy measurement from the local device."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.46"
 ::= { lldpV2Xdot3RemPowerEntry 39 }

lldpV2Xdot3RemMeasVoltageValid OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates the remote device's voltage measurement
    is valid."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.47"
 ::= { lldpV2Xdot3RemPowerEntry 40 }

lldpV2Xdot3RemMeasCurrentValid OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates the remote device's current measurement
    is valid."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.48"
 ::= { lldpV2Xdot3RemPowerEntry 41 }

lldpV2Xdot3RemMeasPowerValid OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates the remote device's power measurement
    is valid."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.49"
 ::= { lldpV2Xdot3RemPowerEntry 42 }

lldpV2Xdot3RemMeasEnergyValid OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates the remote device's energy measurement
    is valid."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.50"
 ::= { lldpV2Xdot3RemPowerEntry 43 }

lldpV2Xdot3RemMeasVoltageUncertainty OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates the expanded uncertainty
    (coverage factor k = 2) for the remote device's voltage
    measurement. See IEEE Std 802.3, Table 79-21."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.51"
 ::= { lldpV2Xdot3RemPowerEntry 44 }

lldpV2Xdot3RemMeasCurrentUncertainty OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This attribute indicates the expanded uncertainty
    (coverage factor k = 2) for the remote device's current
    measurement. See IEEE Std 802.3, Table 79-21."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.52"
 ::= { lldpV2Xdot3RemPowerEntry 45 }

```


lldpV2Xdot3RemMeasPowerUncertainty OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the expanded uncertainty (coverage factor k = 2) for the remote device's power measurement. See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.53"

::= { lldpV2Xdot3RemPowerEntry 46 }

lldpV2Xdot3RemMeasEnergyUncertainty OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the expanded uncertainty (coverage factor k = 2) for the remote device's energy measurement. See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.54"

::= { lldpV2Xdot3RemPowerEntry 47 }

lldpV2Xdot3RemVoltageMeasurement OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the measured remote device voltage. See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.55"

::= { lldpV2Xdot3RemPowerEntry 48 }

lldpV2Xdot3RemCurrentMeasurement OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the measured remote device current. See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.56"

::= { lldpV2Xdot3RemPowerEntry 49 }

lldpV2Xdot3RemPowerMeasurement OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the measured remote device power. See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.57"

::= { lldpV2Xdot3RemPowerEntry 50 }

lldpV2Xdot3RemEnergyMeasurement OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This attribute indicates the measured remote device energy. See IEEE Std 802.3, Table 79-21."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.58"

::= { lldpV2Xdot3RemPowerEntry 51 }

lldpV2Xdot3RemPSEPowerPriceIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

```
DESCRIPTION
    "This attribute indicates an index of the price of power being
    sourced by the remote PSE. For a PSE, this value is undefined."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.59"
 ::= { lldpV2Xdot3RemPowerEntry 52 }
```

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```
---
--- lldpV2Xdot3RemMaxFrameSizeTable: Maximum Frame Size information
--- V2 modified to be indexed by ifIndex and destination MAC address.
---
---
```

```
lldpV2Xdot3RemMaxFrameSizeTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3RemMaxFrameSizeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains one row per port/destination
    address pair of maximum frame
    size information (as a part of the LLDP IEEE 802.3
    organizational extension) of the remote system."
 ::= { lldpV2Xdot3RemoteData 3 }
```

```
lldpV2Xdot3RemMaxFrameSizeEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3RemMaxFrameSizeEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Maximum Frame Size information about a particular port
    component."
INDEX { lldpV2RemTimeMark,
        lldpV2RemLocalIfIndex,
        lldpV2RemLocalDestMACAddress,
        lldpV2RemIndex }
 ::= { lldpV2Xdot3RemMaxFrameSizeTable 1 }
```

```
LldpV2Xdot3RemMaxFrameSizeEntry ::= SEQUENCE {
    lldpV2Xdot3RemMaxFrameSize Unsigned32
}
```

```
lldpV2Xdot3RemMaxFrameSize OBJECT-TYPE
SYNTAX Unsigned32(0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "An integer value indicating the maximum supported frame
    size in octets on the port component associated with the
    remote system."
REFERENCE
    "IEEE Std 802.3 30IEEE Std 802.3, 30.12.3.1.13"
 ::= { lldpV2Xdot3RemMaxFrameSizeEntry 1 }
```

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```
---
---
--- lldpV2Xdot3RemEETable: Energy Efficient Ethernet Information Table
--- V2 modified to be indexed by ifIndex.
---
---
```

```
lldpV2Xdot3RemEETable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot3RemEEEEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains one row per port of Energy Efficient Ethernet
    information (as a part of the LLDP IEEE 802.3 organizational
    extension) on the local system known to this agent."
 ::= { lldpV2Xdot3RemoteData 4 }
```

```
lldpV2Xdot3RemEEEEntry OBJECT-TYPE
SYNTAX LldpV2Xdot3RemEEEEntry
```

```
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Information about a particular port component."
INDEX { lldpV2RemLocalIfIndex }
 ::= { lldpV2Xdot3RemEEETable 1 }
```

```
LldpV2Xdot3RemEEETable ::= SEQUENCE {
    lldpV2Xdot3RemTxTwSys Integer32,
    lldpV2Xdot3RemTxTwSysEcho Integer32,
    lldpV2Xdot3RemRxTwSys Integer32,
    lldpV2Xdot3RemRxTwSysEcho Integer32,
    lldpV2Xdot3RemFbTwSys Integer32,
    lldpV2Xdot3RemTxFw TruthValue,
    lldpV2Xdot3RemTxFwEcho TruthValue,
    lldpV2Xdot3RemRxTxFw TruthValue,
    lldpV2Xdot3RemRxTxFwEcho TruthValue,
    lldpV2Xdot3RemPreemptSupported TruthValue,
    lldpV2Xdot3RemPreemptEnabled TruthValue,
    lldpV2Xdot3RemPreemptActive TruthValue,
    lldpV2Xdot3RemAddFragSize Integer32
}
```

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```
lldpV2Xdot3RemTxTwSys OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "A GET returns the value of Tw_sys_tx that the remote system
    can support in the transmit direction.
    This object maps to the variable RemTxSystemValue as defined
    in IEEE Std 802.3, 78.4.2.3."
REFERENCE
    "IEEE Std 802.3-2012 IEEE Std 802.3, 30.12.3.1.1960"
 ::= { lldpV2Xdot3RemEEETable 1 }
```

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```
lldpV2Xdot3RemTxTwSysEcho OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "A GET returns the value of Tw_sys_tx that the local system is
    advertising that it can support in the transmit direction as
    echoed by the remote system under the control of the EEE DLL receiver
    state diagram. This object maps to the variable
    RemTxSystemValueEcho as defined in IEEE Std 802.3, 78.4.2.3"
REFERENCE
    "IEEE Std 802.3-2012 IEEE Std 802.3, 30.12.3.1.2061"
 ::= { lldpV2Xdot3RemEEETable 2 }
```

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```
lldpV2Xdot3RemRxTwSys OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "A GET returns the value of Tw_sys_tx that
    the remote system is requesting in the receive direction.
    This object maps to the variable RemRxSystemValue as
    defined in IEEE Std 802.3, 78.4.2.3."
REFERENCE
    "IEEE Std 802.3-2012 IEEE Std 802.3, 30.12.3.1.2162"
 ::= { lldpV2Xdot3RemEEETable 3 }
```

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```
lldpV2Xdot3RemRxTwSysEcho OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "A GET returns the value of Tw_sys_tx that
    the local system is advertising that it is requesting in the
    receive direction and is echoed by the remote system under the
```

control of the EEE DLL transmitter state diagram. This object maps to the variable RemRxSystemValueEcho as defined in IEEE Std 802.3, 78.4.2.3."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.2263"

::= {lldpV2Xdot3RemEEEEntry 4 }

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lldpV2Xdot3RemFbTwSys OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A GET returns the value of the fallback Tw_sys_tx that the remote system is advertising. This object maps to the variable RemFbSystemValue as defined in IEEE Std 802.3, 78.4.2.3."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.2364"

::= {lldpV2Xdot3RemEEEEntry 5 }

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lldpV2Xdot3RemTxFw OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the LPI FW value that the remote system can support in the transmit direction. This attribute maps to variable RemTxSystemFW as defined in IEEE Std 802.3, 78.4.2.3."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.65"

::= {lldpV2Xdot3RemEEEEntry 6 }

lldpV2Xdot3RemTxFwEcho OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the LPI FW value advertised by the local system and echoed by the remote system. This attribute maps to variable RemTxSystemFWEcho as defined in IEEE Std 802.3, 78.4.2.3."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.66"

::= {lldpV2Xdot3RemEEEEntry 7 }

lldpV2Xdot3RemRxFw OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the LPI FW value that the remote system is requesting in the receive direction. This attribute maps to variable RemRxSystemFW as defined in IEEE Std 802.3, 78.4.2.3."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.67"

::= {lldpV2Xdot3RemEEEEntry 8 }

lldpV2Xdot3RemRxFwEcho OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the LPI FW value requested by the local system and echoed by the remote system. This attribute maps to variable RemRxSystemFWEcho as defined in IEEE Std 802.3, 78.4.2.3."

REFERENCE

"IEEE Std 802.3, 30.12.3.1.68"

::= {lldpV2Xdot3RemEEEEntry 9 }

lldpV2Xdot3RemPreemptSupported OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

```

    "The truth value used to identify whether the remote system
    supports the preemption capability."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.69"
 ::= { lldpV2Xdot3RemEEEEEntry 10 }

lldpV2Xdot3RemPreemptEnabled OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to identify whether the preemption
    capability is enabled on the remote system."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.70"
 ::= { lldpV2Xdot3RemEEEEEntry 11 }

lldpV2Xdot3RemPreemptActive OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The truth value used to identify whether the preemption
    capability is active on the remote system."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.71"
 ::= { lldpV2Xdot3RemEEEEEntry 12 }

lldpV2Xdot3RemAddFragSize OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This value indicates the minimum size of non-final
    fragments supported by the remote system. This value
    is expressed in units of 64 octets of additional
    fragment length."
REFERENCE
    "IEEE Std 802.3, 30.12.3.1.72"
 ::= { lldpV2Xdot3RemEEEEEntry 13 }

```

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```

-----
-- Conformance statements
-----
lldpV2Xdot3Conformance OBJECT IDENTIFIER ::= { ieee8023lldpV2Xdot3MIB 2 }
lldpV2Xdot3Compliances OBJECT IDENTIFIER ::= { lldpV2Xdot3Conformance 1 }
lldpV2Xdot3Groups      OBJECT IDENTIFIER ::= { lldpV2Xdot3Conformance 2 }

-- Compliance statements

lldpV2Xdot3TxRxCompliance MODULE-COMPLIANCE
STATUS      current
DESCRIPTION
    "A compliance statement for SNMP entities that implement
    the LLDP IEEE 802.3 organizational extension MIB.

    This group is mandatory for all agents that implement the
    LLDP IEEE 802.3 organizational extension in TX and/or RX mode.

    This version defines compliance requirements for
    V2 of the LLDP MIB."
MODULE -- this module
MANDATORY-GROUPS { lldpV2Xdot3ConfigGroup,
                    ifGeneralInformationGroup
                  }
 ::= { lldpV2Xdot3Compliances 1 }

lldpV2Xdot3TxCompliance MODULE-COMPLIANCE
STATUS      current

```

```

DESCRIPTION
    "The compliance statement for SNMP entities that implement
    the LLDP IEEE 802.3 organizational extension MIB.

    This group is mandatory for agents that implement the
    LLDP IEEE 802.3 organizational extension in the TX mode.

    This version defines compliance requirements for
    V2 of the LLDP MIB."
MODULE -- this module
    MANDATORY-GROUPS { lldpV2Xdot3LocSysGroup }
::= { lldpV2Xdot3Compliances 2 }

lldpV2Xdot3RxCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION
    "The compliance statement for SNMP entities that implement
    the LLDP IEEE 802.3 organizational extension MIB.

    This group is mandatory for agents that implement the
    LLDP IEEE 802.3 organizational extension in the RX mode.

    This version defines compliance requirements for
    V2 of the LLDP MIB."
MODULE -- this module
    MANDATORY-GROUPS { lldpV2Xdot3RemSysGroup }
::= { lldpV2Xdot3Compliances 3 }

-- MIB groupings

lldpV2Xdot3ConfigGroup OBJECT-GROUP
OBJECTS {
    lldpV2Xdot3PortConfigTLVsTxEnable
}
STATUS current
DESCRIPTION
    "The collection of objects that are used to configure the
    LLDP IEEE 802.3 organizational extension implementation behavior."
::= { lldpV2Xdot3Groups 1 }

lldpV2Xdot3LocSysGroup OBJECT-GROUP
OBJECTS {
    lldpV2Xdot3LocPortAutoNegSupported,
    lldpV2Xdot3LocPortAutoNegEnabled,
    lldpV2Xdot3LocPortAutoNegAdvertisedCap,
    lldpV2Xdot3LocPortOperMauType,
    lldpV2Xdot3LocPowerPortClass,
    lldpV2Xdot3LocPowerMDISupported,
    lldpV2Xdot3LocPowerMDIEnabled,
    lldpV2Xdot3LocPowerPairControlable,
    lldpV2Xdot3LocPowerPairs,
    lldpV2Xdot3LocPowerClass,
    lldpV2Xdot3LocMaxFrameSize,
    lldpV2Xdot3LocPowerType,
    lldpV2Xdot3LocPowerSource,
    lldpV2Xdot3LocPowerPriority,
    lldpV2Xdot3LocPDRrequestedPowerValue,
    lldpV2Xdot3LocPSEAllocatedPowerValue,
    lldpV2Xdot3LocResponseTime,
    lldpV2Xdot3LocReady,
    lldpV2Xdot3LocReducedOperationPowerValue,
    lldpV2Xdot3LocTxTwSys,
    lldpV2Xdot3LocTxTwSysEcho,
    lldpV2Xdot3LocRxTwSys,
    lldpV2Xdot3LocRxTwSysEcho,
    lldpV2Xdot3LocFbTwSys,
    lldpV2Xdot3TxDllReady,
    lldpV2Xdot3RxDllReady,
    lldpV2Xdot3LocDllEnabled
}
STATUS current

```

```
DESCRIPTION
    "The collection of objects that are used to represent LLDP
    IEEE 802.3 organizational extension Local Device Information."
 ::= { lldpV2Xdot3Groups 2 }

lldpV2Xdot3RemSysGroup OBJECT-GROUP
    OBJECTS {
        lldpV2Xdot3RemPortAutoNegSupported,
        lldpV2Xdot3RemPortAutoNegEnabled,
        lldpV2Xdot3RemPortAutoNegAdvertisedCap,
        lldpV2Xdot3RemPortOperMauType,
        lldpV2Xdot3RemPowerPortClass,
        lldpV2Xdot3RemPowerMDISupported,
        lldpV2Xdot3RemPowerMDIEnabled,
        lldpV2Xdot3RemPowerPairControlable,
        lldpV2Xdot3RemPowerPairs,
        lldpV2Xdot3RemPowerClass,
        lldpV2Xdot3RemMaxFrameSize,
        lldpV2Xdot3RemPowerType,
        lldpV2Xdot3RemPowerSource,
        lldpV2Xdot3RemPowerPriority,
        lldpV2Xdot3RemPDRrequestedPowerValue,
        lldpV2Xdot3RemPSEAllocatedPowerValue,
        lldpV2Xdot3RemTxTwSys,
        lldpV2Xdot3RemTxTwSysEcho,
        lldpV2Xdot3RemRxTwSys,
        lldpV2Xdot3RemRxTwSysEcho,
        lldpV2Xdot3RemFbTwSys
    }
    STATUS current
    DESCRIPTION
        "The collection of objects that are used to represent LLDP
        IEEE 802.3 organizational extension Local Device Information."
 ::= { lldpV2Xdot3Groups 3 }

END
```