

```

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

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Integer32
    FROM SNMPv2-SMI
    TEXTUAL-CONVENTION, TruthValue, AutonomousType
    FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF
    lldpExtensions, lldpLocPortNum,
    lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex,
    lldpPortConfigEntry
    FROM LLDP-MIB;

lldpXdot3MIB MODULE-IDENTITY
    LAST-UPDATED "200403290000Z" -- March 29, 2004
    ORGANIZATION "IEEE 802.1AB Working Group"
    CONTACT-INFO
        " WG-URL: http://grouper.ieee.org/groups/802/1/index.html
          WG-Email: stds-802-1@ieee.org

          Chair: Paul Congdon
          Postal: Hewlett-Packard Company
              8000 Foothills Blvd.
              Roseville, CA 95747
              USA
          Tel: +1-916-785-5753
          E-mail: paul_congdon@hp.com"
    DESCRIPTION
        "The LLDP Management Information Base extension module for
        IEEE 802.3 organizationally defined discovery information.

        In order to assure the uniqueness of the LLDP-MIB,
        lldpXdot3MIB is branched from lldpExtensions using OUI value
        as the node. An OUI/'company_id' is a 24 bit globally unique
        assigned number referenced by various standards.

        Copyright (C) IEEE 801.1AB Workgroup (March 29, 2004).
        This version of this MIB module is published as Clause 12
        of IEEE Std. 802.1AB-2004; see the standard itself for full
        legal notices."
    REVISION      "200403290000Z" -- March 29, 2004
    DESCRIPTION
        "Published as IEEE Std. 802.1AB-2004 initial version."
    ::= { lldpExtensions XXXXXX }

-----
--
-- Organizationaly Defined Information Extension - IEEE 802.3
--
-----

lldpXdot3Objects OBJECT IDENTIFIER ::= { lldpXdot3MIB 1 }

-- LLDP IEEE 802.3 extension MIB groups
lldpXdot3Config OBJECT IDENTIFIER ::= { lldpXdot3Objects 1 }
lldpXdot3LocalData OBJECT IDENTIFIER ::= { lldpXdot3Objects 2 }
lldpXdot3RemoteData OBJECT IDENTIFIER ::= { lldpXdot3Objects 3 }

-- textual conventions

LldpPowerPortClass ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "This TC describes the Power over Ethernet (PoE) port class."
    SYNTAX INTEGER {
        pClassPSE(1),
        pClassPD(2)
    }

LldpLinkAggStatusMap ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "This TC describes the link aggregation status.

        The bit 'aggCapable(0)' indicates the link is capable of being
        aggregated.

        The bit 'aggEnabled(1)' indicates the link is currently in
        aggregation."

```

```

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

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Integer32
    FROM SNMPv2-SMI
    TEXTUAL-CONVENTION, TruthValue, AutonomousType
    FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF
    lldpExtentions, lldpLocPortNum,
    lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex,
    lldpPortConfigEntry
    FROM LLDP-MIB;

lldpXdot3MIB MODULE-IDENTITY
    LAST-UPDATED "200403120000Z" -- March 12, 2004
    ORGANIZATION "IEEE 802.1AB Workgroup"
    CONTACT-INFO "The Institute of Electrical and Electronics Engineers, Inc.
        3 Park Avenue,
        New York, NY 10016-5997, USA

        http://grouper.ieee.org/groups/802/1/index.html"
    DESCRIPTION
        "The LLDP MIB extension module for IEEE 802.3 organizationally
        defined discovery information.

        Copyright (C) IEEE 801.1AB Workgroup (March 12, 2004).
        This version of this MIB module is part of IEEE Draft
        802.1AB/D8; see the draft itself for full legal notices."
    -- MIB Ed: change the Copyright information when a new draft becomes
    -- available.
    REVISION      "200403120000Z" -- March 12, 2004
    DESCRIPTION
        "Initial Version."
    -- An OUI/'company_id' is a 24 bit globally unique assigned number
    -- referenced by various standards.
    -- we have to assure the uniqueness of the LLDP-MIB and the
    -- lldpExtentions branch by using OUI value as the node.
    -- MIB Ed: replace XXXXX with IEEE 802.3 OUI when it is assigned and
    -- remove this note
    ::= { lldpExtentions XXXXX }

-----
--
-- Organizationaly Defined Information Extension - IEEE 802.3
--
-----

lldpXdot3Objects OBJECT IDENTIFIER ::= { lldpXdot3MIB 1 }

-- LLDP IEEE 802.3 extension MIB groups
lldpXdot3Config OBJECT IDENTIFIER ::= { lldpXdot3Objects 1 }
lldpXdot3LocalData OBJECT IDENTIFIER ::= { lldpXdot3Objects 2 }
lldpXdot3RemoteData OBJECT IDENTIFIER ::= { lldpXdot3Objects 3 }

-- textual conventions

LldpPowerPortClass ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "This TC describes the Power over Ethernet (PoE) port class."
    SYNTAX INTEGER {
        pClassPSE(1),
        pClassPD(2)
    }

LldpLinkAggStatusMap ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "This TC describes the link aggregation status.

        The bit 'aggCapable(0)' indicates the link is capable of being
        aggregated.

        The bit 'aggEnabled(1)' indicates the link is currently in
        aggregation."

```

```

SYNTAX BITS {
85     aggCapable(0),
        aggEnabled(1)
}

-----
-- IEEE 802.3 - Configuration
-----

lldpXdot3PortConfigTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot3PortConfigEntry
MAX-ACCESS not-accessible
95 STATUS current
DESCRIPTION
    "A table that controls selection of LLDP TLVs to be transmitted
    on individual ports."
 ::= { lldpXdot3Config 1 }

100 lldpXdot3PortConfigEntry OBJECT-TYPE
SYNTAX LldpXdot3PortConfigEntry
MAX-ACCESS not-accessible
STATUS current
105 DESCRIPTION
    "LLDP configuration information that controls the
    transmission of IEEE 802.3 organizationally defined TLVs on
    LLDP transmission capable ports.

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

115 Each active lldpXdot3PortConfigEntry must be from non-volatile
    storage (along with the corresponding lldpPortConfigEntry)
    after a re-initialization of the management system."

AUGMENTS { lldpPortConfigEntry }
120 ::= { lldpXdot3PortConfigTable 1 }

LldpXdot3PortConfigEntry ::= SEQUENCE {
    lldpXdot3PortConfigTLVsTxEnable BITS
}
125 lldpXdot3PortConfigTLVsTxEnable OBJECT-TYPE
SYNTAX BITS {
    autoNegotiation(0),
    powerViaMDI(1),
130 linkAggregation(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
135 "The lldpXdot3PortConfigTLVsTxEnable, defined as a bitmap,
    includes the IEEE 802.3 organizationally defined set of LLDP
    TLVs whose transmission is allowed on 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
140 IEEE 802.3 optional TLV. The bit 0 is not used since there is
    no corresponding subtype.

    The bit 'autoNegotiation(0)' indicates that LLDP agent should
    transmit 'Auto-negotiation TLV'.

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

    The bit 'linkAggregation(2)' indicates that LLDP agent should
    transmit 'Link Aggregation TLV'.

150 The default value for lldpXdot3PortConfigTLVsTxEnable object
    is an empty set, which means no enumerated values are set.

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

REFERENCE
    "IEEE 802.1AB/D8 section 10.2.1.1"
DEFVAL { {} }
160 ::= { lldpXdot3PortConfigEntry 1 }

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

SYNTAX BITS {
        aggCapable(0),
        aggEnabled(1)
}

-----
-- IEEE 802.3 - Configuration
-----

lldpXdot3PortConfigTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot3PortConfigEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table that controls selection of LLDP TLVs to be transmitted
    on individual ports."
 ::= { lldpXdot3Config 1 }

lldpXdot3PortConfigEntry OBJECT-TYPE
SYNTAX LldpXdot3PortConfigEntry
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 lldpPortConfigEntry of
    the LLDP-MIB, therefore it is only present along with the port
    configuration defined by the associated lldpPortConfigEntry
    entry.

    If the agent is capable of storing non-volatile configuration,
    then each active lldpConfigEntry must be re-created
    (along with the corresponding lldpPortConfigEntry) after a
    re-initialization of the management system."

AUGMENTS { lldpPortConfigEntry }
 ::= { lldpXdot3PortConfigTable 1 }

LldpXdot3PortConfigEntry ::= SEQUENCE {
    lldpXdot3PortConfigTLVsTxEnable BITS
}

lldpXdot3PortConfigTLVsTxEnable OBJECT-TYPE
SYNTAX BITS {
    autoNegotiation(0),
    powerViaMDI(1),
    linkAggregation(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The lldpXdot3PortConfigTLVsTxEnable, defined as a bitmap,
    includes the IEEE 802.3 organizationally defined set of LLDP
    TLVs whose transmission is allowed on 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
    IEEE 802.3 optional TLV. The bit 0 is not used since there is
    no corresponding subtype.

    The bit 'autoNegotiation(0)' indicates that LLDP agent should
    transmit 'Auto-negotiation TLV'.

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

    The bit 'linkAggregation(2)' indicates that LLDP agent should
    transmit 'Link Aggregation TLV'.

    If the agent is capable of storing non-volatile configuration,
    then the value of this object must be restored after a
    re-initialization of the management system."

REFERENCE
    "IEEE 802.1AB/D8 section 10.2.1.1"
DEFVAL { { autoNegotiation, powerViaMDI, linkAggregation } }
 ::= { lldpXdot3PortConfigEntry 1 }

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

```

```

165 -----
---
--- lldpXdot3LocPortTable: Ethernet Port AutoNeg/Speed/Duplex
---                               Information Table
---
170 ---
lldpXdot3LocPortTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot3LocPortEntry
MAX-ACCESS not-accessible
STATUS current
175 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."
    ::= { lldpXdot3LocalData 1 }

180 lldpXdot3LocPortEntry OBJECT-TYPE
SYNTAX LldpXdot3LocPortEntry
MAX-ACCESS not-accessible
STATUS current
185 DESCRIPTION
    "Information about a particular port component."
INDEX { lldpLocPortNum }
    ::= { lldpXdot3LocPortTable 1 }

190 lldpXdot3LocPortEntry ::= SEQUENCE {
    lldpXdot3LocPortAutoNegSupported TruthValue,
    lldpXdot3LocPortAutoNegEnabled TruthValue,
    lldpXdot3LocPortPMDCapability OCTET STRING,
    lldpXdot3LocPortPMDDefaultConfig AutonomousType,
195 lldpXdot3LocPortFaultIndication Integer32
}

lldpXdot3LocPortAutoNegSupported OBJECT-TYPE
200 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."
205 REFERENCE
    "IEEE 802.1AB/D8 section H.2.1"
    ::= { lldpXdot3LocPortEntry 1 }

lldpXdot3LocPortAutoNegEnabled OBJECT-TYPE
210 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."
215 REFERENCE
    "IEEE 802.1AB/D8 section H.2.1"
    ::= { lldpXdot3LocPortEntry 2 }

220 lldpXdot3LocPortPMDCapability OBJECT-TYPE
SYNTAX OCTET STRING(SIZE(4))
MAX-ACCESS read-only
STATUS current
225 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."
230 REFERENCE
    "IEEE 802.1AB/D8 section H.2.2"
    ::= { lldpXdot3LocPortEntry 3 }

lldpXdot3LocPortPMDDefaultConfig OBJECT-TYPE
235 SYNTAX AutonomousType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This object contains the value of the ifMauDefaultType
    object (defined in IETF RFC 3636) which is associated with
    the given port on the local system."
240 REFERENCE
    "IEEE 802.1AB/D8 section H.2.3"
    ::= { lldpXdot3LocPortEntry 4 }

245 lldpXdot3LocPortFaultIndication OBJECT-TYPE

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SYNTAX      Integer32(0..2147483647)
MAX-ACCESS  read-only
STATUS      current
250 DESCRIPTION
    "This object contains the value of the
    ifMauAutoNegRemouteFaultAdvertised object (defined in IETF
    RFC 3636) which is associated with the given port on the
    local system."
255 REFERENCE
    "IEEE 802.1AB/D8 section H.2.4"
    ::= { lldpXdot3LocPortEntry 5 }

---
---
--- lldpXdot3LocPowerTable: Power Ethernet Information Table
---
---
lldpXdot3LocPowerTable OBJECT-TYPE
265 SYNTAX      SEQUENCE OF LldpXdot3LocPowerEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
270 "This table contains one row per port of power ethernet
    information (as a part of the LLDP 802.3 organizational
    extension) on the local system known to this agent."
    ::= { lldpXdot3LocalData 2 }

lldpXdot3LocPowerEntry OBJECT-TYPE
275 SYNTAX      LldpXdot3LocPowerEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
280 "Information about a particular port component."
INDEX       { lldpLocPortNum }
    ::= { lldpXdot3LocPowerTable 1 }

LldpXdot3LocPowerEntry ::= SEQUENCE {
285     lldpXdot3LocPowerPortClass      LldpPowerPortClass,
     lldpXdot3LocPowerMDISupported    TruthValue,
     lldpXdot3LocPowerMDIEnabled      TruthValue,
     lldpXdot3LocPowerPairControlable TruthValue,
     lldpXdot3LocPowerPairs           Integer32,
290     lldpXdot3LocPowerClass          Integer32
}

lldpXdot3LocPowerPortClass OBJECT-TYPE
295 SYNTAX      LldpPowerPortClass
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The value that identifies the port Class of the given port
    associated with the local system."
300 REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3LocPowerEntry 1 }

lldpXdot3LocPowerMDISupported OBJECT-TYPE
305 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 local system."
310 REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3LocPowerEntry 2 }

lldpXdot3LocPowerMDIEnabled OBJECT-TYPE
315 SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
320 "The truth value used to identify whether MDI power is
    enabled on the given port associated with the local system."
REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3LocPowerEntry 3 }

325 lldpXdot3LocPowerPairControlable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current

```

```

SYNTAX      AutonomousType
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "This object contains the value of the
    ifMauAutoNegRemouteFaultAdvertised object (defined in IETF
    RFC 3636) which is associated with the given port on the
    local system."
REFERENCE
    "IEEE 802.1AB/D8 section H.2.4"
    ::= { lldpXdot3LocPortEntry 5 }

---
---
--- lldpXdot3LocPowerTable: Power Ethernet Information Table
---
---
lldpXdot3LocPowerTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpXdot3LocPowerEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains one row per port of power ethernet
    information (as a part of the LLDP 802.3 organizational
    extension) on the local system known to this agent."
    ::= { lldpXdot3LocalData 2 }

lldpXdot3LocPowerEntry OBJECT-TYPE
SYNTAX      LldpXdot3LocPowerEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Information about a particular port component."
INDEX       { lldpLocPortNum }
    ::= { lldpXdot3LocPowerTable 1 }

LldpXdot3LocPowerEntry ::= SEQUENCE {
     lldpXdot3LocPowerPortClass      LldpPowerPortClass,
     lldpXdot3LocPowerMDISupported    TruthValue,
     lldpXdot3LocPowerMDIEnabled      TruthValue,
     lldpXdot3LocPowerPairControlable TruthValue,
     lldpXdot3LocPowerPair           AutonomousType,
     lldpXdot3LocPowerClass          Integer32
}

lldpXdot3LocPowerPortClass OBJECT-TYPE
SYNTAX      LldpPowerPortClass
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 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3LocPowerEntry 1 }

lldpXdot3LocPowerMDISupported 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 local system."
REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3LocPowerEntry 2 }

lldpXdot3LocPowerMDIEnabled 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 local system."
REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3LocPowerEntry 3 }

lldpXdot3LocPowerPairControlable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current

```

```

DESCRIPTION
330     "The truth value used to indicate if the pair selection
        can be controlled on the given port associated with the
        local system."
REFERENCE
335     ::= { lldpXdot3LocPowerEntry 4 }

lldpXdot3LocPowerPairs OBJECT-TYPE
SYNTAX     Integer32(1..2)
MAX-ACCESS read-only
340 STATUS     current
DESCRIPTION
        "This object contains the value of the pethPsePortPowerPairs
        object (defined in IETF RFC 3621) which is associated with
        the given port on the local system."
345 REFERENCE
        "IEEE 802.1AB/D8 section H.3.2"
        ::= { lldpXdot3LocPowerEntry 5 }

lldpXdot3LocPowerClass OBJECT-TYPE
350 SYNTAX     Integer32(1..5)
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
355     "This object contains the value of the
        pethPsePortPowerClassifications object (defined in IETF
        RFC 3621) which is associated with the given port on the
        local system."
REFERENCE
360     "IEEE 802.1AB/D8 section H.3.3"
        ::= { lldpXdot3LocPowerEntry 6 }

---
---
--- lldpXdot3LocLinkAggTable: Link Aggregation Information Table
365 ---
---

lldpXdot3LocLinkAggTable OBJECT-TYPE
SYNTAX     SEQUENCE OF LldpXdot3LocLinkAggEntry
MAX-ACCESS not-accessible
370 STATUS     current
DESCRIPTION
        "This table contains one row per port of link aggregation
        information (as a part of the LLDP 802.3 organizational
        extension) on the local system known to this agent."
375     ::= { lldpXdot3LocalData 3 }

lldpXdot3LocLinkAggEntry OBJECT-TYPE
SYNTAX     LldpXdot3LocLinkAggEntry
MAX-ACCESS not-accessible
380 STATUS     current
DESCRIPTION
        "Link Aggregation information about a particular port
        component."
INDEX     { lldpLocPortNum }
385     ::= { lldpXdot3LocLinkAggTable 1 }

LldpXdot3LocLinkAggEntry ::= SEQUENCE {
        lldpXdot3LocLinkAggStatus     LldpLinkAggStatusMap,
        lldpXdot3LocLinkAggPortId     Integer32
390 }

lldpXdot3LocLinkAggStatus OBJECT-TYPE
SYNTAX     LldpLinkAggStatusMap
MAX-ACCESS read-only
395 STATUS     current
DESCRIPTION
        "The bitmap value contains the link aggregation capabilities
        and the current aggregation status of the link."
REFERENCE
400     "IEEE 802.1AB/D8 section H.4.1"
        ::= { lldpXdot3LocLinkAggEntry 1 }

lldpXdot3LocLinkAggPortId OBJECT-TYPE
405 SYNTAX     Integer32(0|1..2147483647)
MAX-ACCESS read-only
STATUS     current
DESCRIPTION
410     "This object contains the IEEE 802.3 aggregated port
        identifier, aAggPortID (IEEE 802.3-2002, 30.7.2.1.1),
        derived from the ifNumber of the ifIndex for the port

```

```

component in link aggregation.
<
<
If the port is not in link aggregation state and/or it
does not support link aggregation, this value should be set
to zero."
415 REFERENCE "IEEE 802.1AB/D8 section H.4.2" REFERENCE "IEEE 802.1AB/D8 section H.4.2"
::= { lldpXdot3LocLinkAggEntry 2 } ::= { lldpXdot3LocLinkAggEntry 2 }

420 -----
-- IEEE 802.3 - Remote Devices Information
-----

425 ---
---
--- lldpXdot3RemPortTable: Ethernet Information Table
---
---
430 lldpXdot3RemPortTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot3RemPortEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
435 "This table contains Ethernet port information (as a part
of the LLDP 802.3 organizational extension) of the remote
system."
::= { lldpXdot3RemoteData 1 }

440 lldpXdot3RemPortEntry OBJECT-TYPE
SYNTAX LldpXdot3RemPortEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
445 "Information about a particular physical network connection."
INDEX { lldpRemTimeMark,
lldpRemLocalPortNum,
lldpRemIndex }
::= { lldpXdot3RemPortTable 1 }

450 lldpXdot3RemPortEntry ::= SEQUENCE {
lldpXdot3RemPortAutoNegSupported TruthValue,
lldpXdot3RemPortAutoNegEnabled TruthValue,
lldpXdot3RemPortPMDCapability OCTET STRING,
455 lldpXdot3RemPortPMDDefaultConfig AutonomousType,
lldpXdot3RemPortFaultIndication Integer32
}

lldpXdot3RemPortAutoNegSupported OBJECT-TYPE
460 SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
465 "The truth value used to indicate whether the given port
(associated with remote system) supports Auto-negotiation."
REFERENCE
"IEEE 802.1AB/D8 section H.2.1"
::= { lldpXdot3RemPortEntry 1 }

470 lldpXdot3RemPortAutoNegEnabled OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
475 "The truth value used to indicate whether port
Auto-negotiation is enabled on the given port associated
with the remote system."
REFERENCE
"IEEE 802.1AB/D8 section H.2.1"
480 ::= { lldpXdot3RemPortEntry 2 }

lldpXdot3RemPortPMDCapability OBJECT-TYPE
SYNTAX OCTET STRING(SIZE(4))
MAX-ACCESS read-only
485 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
490 remote system."
REFERENCE
"IEEE 802.1AB/D8 section H.2.2"

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 ::= { lldpXdot3RemPortEntry 3 }
495 lldpXdot3RemPortPMDDefaultConfig OBJECT-TYPE
    SYNTAX      AutonomousType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
500     "This object contains the value of the ifMauDefaultType
        object (defined in IETF RFC 3636) which is associated with
        the given port on the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section H.2.3"
505     ::= { lldpXdot3RemPortEntry 4 }

lldpXdot3RemPortFaultIndication OBJECT-TYPE
    SYNTAX      Integer32(1..4)
    MAX-ACCESS  read-only
510     STATUS      current
    DESCRIPTION
        "This object contains the value of the
        ifMauAutoNegRemoteFaultAdvertised object (defined in IETF
        RFC 3636) which is associated with the given port on the
515     remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section H.2.4"
        ::= { lldpXdot3RemPortEntry 5 }

520 ---
    ---
    --- lldpXdot3RemPowerTable: Power Ethernet Information Table
    ---
525 lldpXdot3RemPowerTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot3RemPowerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
530     "This table contains Ethernet power information (as a part
        of the LLDP 802.3 organizational extension) of the remote
        system."
        ::= { lldpXdot3RemoteData 2 }

535 lldpXdot3RemPowerEntry OBJECT-TYPE
    SYNTAX      LldpXdot3RemPowerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
540     "Information about a particular physical network connection."
    INDEX      { lldpRemTimeMark,
                lldpRemLocalPortNum,
                lldpRemIndex }
        ::= { lldpXdot3RemPowerTable 1 }

545 lldpXdot3RemPowerEntry ::= SEQUENCE {
        lldpXdot3RemPowerPortClass      LldpPowerPortClass,
        lldpXdot3RemPowerMDISupported   TruthValue,
        lldpXdot3RemPowerMDIEnabled     TruthValue,
550     lldpXdot3RemPowerPairControlable TruthValue,
        lldpXdot3RemPowerPairs          Integer32,
        lldpXdot3RemPowerClass          Integer32
    }

555 lldpXdot3RemPowerPortClass OBJECT-TYPE
    SYNTAX      LldpPowerPortClass
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
560     "The value that identifies the port Class of the given port
        associated with the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section H.3.1"
        ::= { lldpXdot3RemPowerEntry 1 }

565 lldpXdot3RemPowerMDISupported OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
570     DESCRIPTION
        "The truth value used to indicate whether the MDI power
        is supported on the given port associated with the remote
        system."
    REFERENCE

```

```

575      "IEEE 802.1AB/D8 section H.3.1"
      ::= { lldpXdot3RemPowerEntry 2 }

lldpXdot3RemPowerMDIEnabled OBJECT-TYPE
SYNTAX      TruthValue
580  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."
585  REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3RemPowerEntry 3 }

lldpXdot3RemPowerPairControlable OBJECT-TYPE
590  SYNTAX      TruthValue
MAX-ACCESS read-only
STATUS      current
DESCRIPTION
    "The truth value used to indicate if the pair selection
595  can be controlled on the given port associated with the
    remote system."
    REFERENCE
    "IEEE 802.1AB/D8 section H.3.1"
    ::= { lldpXdot3RemPowerEntry 4 }

600  lldpXdot3RemPowerPairs OBJECT-TYPE
SYNTAX      Integer32(1..2)
MAX-ACCESS read-only
STATUS      current
605  DESCRIPTION
    "This object contains the value of the pethPsePortPowerPairs
    object (defined in IETF RFC 3621) which is associated with
    the given port on the remote system."
    REFERENCE
610  "IEEE 802.1AB/D8 section H.3.2"
    ::= { lldpXdot3RemPowerEntry 5 }

lldpXdot3RemPowerClass OBJECT-TYPE
615  SYNTAX      Integer32(1..5)
MAX-ACCESS read-only
STATUS      current
DESCRIPTION
    "This object contains the value of the
620  pethPsePortPowerClassifications object (defined in IETF
    RFC 3621) which is associated with the given port on the
    remote system."
    REFERENCE
    "IEEE 802.1AB/D8 section H.3.3"
    ::= { lldpXdot3RemPowerEntry 6 }

625  ---
    ---
    --- lldpXdot3RemLinkAggTable: Link Aggregation Information Table
    ---
630  ---

lldpXdot3RemLinkAggTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpXdot3RemLinkAggEntry
MAX-ACCESS not-accessible
STATUS      current
635  DESCRIPTION
    "This table contains port link aggregation information
    (as a part of the LLDP 802.3 organizational extension)
    of the remote system."
    ::= { lldpXdot3Remotedata 3 }

640  lldpXdot3RemLinkAggEntry OBJECT-TYPE
SYNTAX      LldpXdot3RemLinkAggEntry
MAX-ACCESS not-accessible
STATUS      current
645  DESCRIPTION
    "Link Aggregation information about remote system's port
    component."
    INDEX { lldpRemTimeMark,
650  lldpRemLocalPortNum,
    lldpRemIndex }
    ::= { lldpXdot3RemLinkAggTable 1 }

LldpXdot3RemLinkAggEntry ::= SEQUENCE {
655  lldpXdot3RemLinkAggStatus      LldpLinkAggStatusMap,
    lldpXdot3RemLinkAggPortId     Integer32
}

```



```

lldpXdot3RemLinkAggStatus OBJECT-TYPE
SYNTAX      LldpLinkAggStatusMap
660  MAX-ACCESS read-only
STATUS      current
DESCRIPTION
    "The bitmap value contains the link aggregation capabilities
    and the current aggregation status of the link."
665  REFERENCE
    "IEEE 802.1AB/D8 section H.4.1"
    ::= { lldpXdot3RemLinkAggEntry 1 }

lldpXdot3RemLinkAggPortId OBJECT-TYPE
670  SYNTAX      Integer32(0|1..2147483647)
MAX-ACCESS read-only
STATUS      current
DESCRIPTION
675  "This object contains the IEEE 802.3 aggregated port
    identifier, aAggPortID (IEEE 802.3-2002, 30.7.2.1.1),
    derived from the ifNumber of the ifIndex for the port
    component associated with the remote system."
REFERENCE
680  "IEEE 802.1AB/D8 section H.4.2"
    ::= { lldpXdot3RemLinkAggEntry 2 }

-- conformance information

685  lldpXdot3Conformance OBJECT IDENTIFIER ::= { lldpXdot3MIB 2 }
lldpXdot3Compliances OBJECT IDENTIFIER ::= { lldpXdot3Conformance 1 }
lldpXdot3Groups      OBJECT IDENTIFIER ::= { lldpXdot3Conformance 2 }

-- compliance statements

690  lldpXdot3Compliance MODULE-COMPLIANCE
STATUS      current
DESCRIPTION
695  "The compliance statement for SNMP entities which implement
    the LLDP 802.3 organizational extension MIB."
MODULE     -- this module
MANDATORY-GROUPS { lldpXdot3ConfigGroup,
                    lldpXdot3RemSysGroup
670  }
GROUP lldpXdot3OptLocSysGroup
DESCRIPTION
    "This object represents the information associated with
    the IEEE 802.3 optional TLVs, therefore the agent may
    not implement them."
705  ::= { lldpXdot3Compliances 1 }

-- MIB groupings

lldpXdot3ConfigGroup  OBJECT-GROUP
710  OBJECTS {
    lldpXdot3PortConfigTLVsTxEnable
}
STATUS      current
DESCRIPTION
715  "The collection of objects which are used to configure the
    LLDP 802.3 organizational extension implementation behavior.

    This group is mandatory for agents which implement the
    LLDP 802.3 organizational extension."
720  ::= { lldpXdot3Groups 1 }

lldpXdot3OptLocSysGroup OBJECT-GROUP
OBJECTS {
725  lldpXdot3LocPortAutoNegSupported,
    lldpXdot3LocPortAutoNegEnabled,
    lldpXdot3LocPortPMDCapability,
    lldpXdot3LocPortPMDDefaultConfig,
    lldpXdot3LocPortFaultIndication,
    lldpXdot3LocPowerPortClass,
730  lldpXdot3LocPowerMDISupported,
    lldpXdot3LocPowerMDIEnabled,
    lldpXdot3LocPowerPairControlable,
    lldpXdot3LocPowerPairs,
    lldpXdot3LocPowerClass,
735  lldpXdot3LocLinkAggStatus,
    lldpXdot3LocLinkAggPortId
}
STATUS      current

```

```
DESCRIPTION
740     "The collection of objects which are used to represent LLDP
      802.3 organizational extension Local Device Information.

      This group is optional for agents which implement the
      LLDP 802.3 organizational extension."
745 ::= { lldpXdot3Groups 2 }

lldpXdot3RemSysGroup OBJECT-GROUP
OBJECTS {
750     lldpXdot3RemPortAutoNegSupported,
      lldpXdot3RemPortAutoNegEnabled,
      lldpXdot3RemPortPMDCapability,
      lldpXdot3RemPortPMDDefaultConfig,
      lldpXdot3RemPortFaultIndication,
      lldpXdot3RemPowerPortClass,
755     lldpXdot3RemPowerMDISupported,
      lldpXdot3RemPowerMDIEnabled,
      lldpXdot3RemPowerPairControlable,
      lldpXdot3RemPowerPairs,
      lldpXdot3RemPowerClass,
760     lldpXdot3RemLinkAggStatus,
      lldpXdot3RemLinkAggPortId
}
STATUS current
DESCRIPTION
765     "The collection of objects which are used to represent LLDP
      802.3 organizational extension Local Device Information.

      This group is mandatory for agents which implement the
      LLDP 802.3 organizational extension."
770 ::= { lldpXdot3Groups 3 }

END
```

```
DESCRIPTION
      "The collection of objects which are used to represent LLDP
      802.3 organizational extension Local Device Information.

      This group is optional for agents which implement the
      LLDP 802.3 organizational extension."
      ::= { lldpXdot3Groups 2 }

lldpXdot3RemSysGroup OBJECT-GROUP
OBJECTS {
      lldpXdot3RemPortAutoNegSupported,
      lldpXdot3RemPortAutoNegEnabled,
      lldpXdot3RemPortPMDCapability,
      lldpXdot3RemPortPMDDefaultConfig,
      lldpXdot3RemPortFaultIndication,
      lldpXdot3RemPowerPortClass,
      lldpXdot3RemPowerMDISupported,
      lldpXdot3RemPowerMDIEnabled,
      lldpXdot3RemPowerPairControlable,
      lldpXdot3RemPowerPair,
      lldpXdot3RemPowerClass,
      lldpXdot3RemLinkAggStatus,
      lldpXdot3RemLinkAggPortId
}
STATUS current
DESCRIPTION
      "The collection of objects which are used to represent LLDP
      802.3 organizational extension Local Device Information.

      This group is mandatory for agents which implement the
      LLDP 802.3 organizational extension."
      ::= { lldpXdot3Groups 3 }

END
```