

```

LLDP-EXT-DOT1-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Integer32
    FROM SNMPv2-SMI
    TruthValue
    FROM SNMPv2-TC
    SnmpAdminString
    FROM SNMP-FRAMEWORK-MIB
    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF
    lldpExtensions, lldpLocPortNum,
    lldpRemTimeMark, lldpRemLocalPortNum, lldpRemIndex,
    lldpPortConfigEntry
    FROM LLDP-MIB
    VlanId
    FROM Q-BRIDGE-MIB;

lldpXdot1MIB 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,
        lldpXdot1MIB 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 YYYYYY }

-----
--
-- Organizationaly Defined Information Extension - IEEE 802.1
--
-----

lldpXdot1Objects OBJECT IDENTIFIER ::= { lldpXdot1MIB 1 }

-- LLDP IEEE 802.1 extension MIB groups
lldpXdot1Config OBJECT IDENTIFIER ::= { lldpXdot1Objects 1 }
lldpXdot1LocalData OBJECT IDENTIFIER ::= { lldpXdot1Objects 2 }
lldpXdot1RemoteData OBJECT IDENTIFIER ::= { lldpXdot1Objects 3 }

-----
-- IEEE 802.1 - Configuration
-----

-- lldpXdot1ConfigPortVlanTable : configure the transmission of the
--                               Port VLAN-ID TLVs on set of ports.
--

lldpXdot1ConfigPortVlanTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LldpXdot1ConfigPortVlanEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A table that controls selection of LLDP Port VLAN-ID TLVs
        to be transmitted on individual ports."
    ::= { lldpXdot1Config 1 }

```

```

LLDP-EXT-DOT1-MIB DEFINITIONS ::= BEGIN

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

lldpXdot1MIB 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 802.1 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
    -- lldpExtensions branch by using OUI value as the node.
    -- MIB Ed: replace XXXXX with IEEE 802.1 OUI when it is assigned and
    -- remove this note
    ::= { lldpExtentions XXXXX }

-----
--
-- Organizationaly Defined Information Extension - IEEE 802.1
--
-----

lldpXdot1Objects OBJECT IDENTIFIER ::= { lldpXdot1MIB 1 }

-- LLDP IEEE 802.1 extension MIB groups
lldpXdot1Config OBJECT IDENTIFIER ::= { lldpXdot1Objects 1 }
lldpXdot1LocalData OBJECT IDENTIFIER ::= { lldpXdot1Objects 2 }
lldpXdot1RemoteData OBJECT IDENTIFIER ::= { lldpXdot1Objects 3 }

-----
-- IEEE 802.1 - Configuration
-----

-- lldpXdot1ConfigPortVlanTable : configure the transmission of the
--                               Port VLAN-ID TLVs on set of ports.
--

lldpXdot1ConfigPortVlanTable OBJECT-TYPE
    SYNTAX SEQUENCE OF LldpXdot1ConfigPortVlanEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A table that controls selection of LLDP Port VLAN-ID TLVs
        to be transmitted on individual ports."
    ::= { lldpXdot1Config 1 }

```

```

lldpXdot1ConfigPortVlanEntry OBJECT-TYPE
85  SYNTAX      LldpXdot1ConfigPortVlanEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "LLDP configuration information that controls the
        transmission of IEEE 802.1 organizationally defined Port
90  VLAN-ID TLV 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
95  entry.

        Each active lldpConfigEntry must be restored from non-volatile
        storage (along with the corresponding lldpPortConfigEntry)
        after a re-initialization of the management system."
100 AUGMENTS { lldpPortConfigEntry }
    ::= { lldpXdot1ConfigPortVlanTable 1 }

LldpXdot1ConfigPortVlanEntry ::= SEQUENCE {
105  lldpXdot1ConfigPortVlanTxEnable TruthValue
}

lldpXdot1ConfigPortVlanTxEnable OBJECT-TYPE
110 SYNTAX      TruthValue
    MAX-ACCESS read-write
    STATUS     current
    DESCRIPTION
115  "The lldpXdot1ConfigPortVlanTxEnable, which is defined as
    a truth value and configured by the network management,
    determines whether the IEEE 802.1 organizationally defined
    port VLAN TLV transmission is allowed on a given LLDP
    transmission capable port.

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

    REFERENCE
125  ::= { lldpXdot1ConfigPortVlanEntry 1 }

--
-- lldpXdot1ConfigVlanNameTable : configure the transmission of the
--                               VLAN name instances on set of ports.
--

130 lldpXdot1ConfigVlanNameTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot1ConfigVlanNameEntry
    MAX-ACCESS not-accessible
    STATUS     current
135  DESCRIPTION
        "The table that controls selection of LLDP VLAN name TLV
        instances to be transmitted on individual ports."
    ::= { lldpXdot1Config 2 }

140 lldpXdot1ConfigVlanNameEntry OBJECT-TYPE
    SYNTAX      LldpXdot1ConfigVlanNameEntry
    MAX-ACCESS not-accessible
    STATUS     current
145  DESCRIPTION
        "LLDP configuration information that specifies the set of
        ports (represented as a PortList) on which the Local System
        VLAN name instance will be transmitted.

150  This configuration object augments the lldpLocVlanEntry,
        therefore it is only present along with the VLAN Name instance
        contained in the associated lldpLocVlanNameEntry entry.

        Each active lldpXdot1ConfigVlanNameEntry must be restored
155  from non-volatile storage (along with the corresponding
        lldpXdot1LocVlanNameEntry) after a re-initialization of the
        management system."
    AUGMENTS { lldpXdot1LocVlanNameEntry }
    ::= { lldpXdot1ConfigVlanNameTable 1 }

160 LldpXdot1ConfigVlanNameEntry ::= SEQUENCE {
    lldpXdot1ConfigVlanNameTxEnable TruthValue
}

lldpXdot1ConfigPortVlanEntry OBJECT-TYPE
SYNTAX      LldpXdot1ConfigPortVlanEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
    "LLDP configuration information that controls the
    transmission of IEEE 802.1 organizationally defined Port
VLAN-ID TLV 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 }
    ::= { lldpXdot1ConfigPortVlanTable 1 }

LldpXdot1ConfigPortVlanEntry ::= SEQUENCE {
    lldpXdot1ConfigPortVlanTxEnable TruthValue
}

lldpXdot1ConfigPortVlanTxEnable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS read-write
STATUS     current
DESCRIPTION
    "The lldpXdot1ConfigPortVlanTxEnable, which is defined as
    a truth value and configured by the network management,
    determines whether the IEEE 802.1 organizationally defined
    port VLAN TLV transmission is allowed on a given LLDP
    transmission capable port.

    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
    ::= { lldpXdot1ConfigPortVlanEntry 1 }

--
-- lldpXdot1ConfigVlanNameTable : configure the transmission of the
--                               VLAN name instances on set of ports.
--

lldpXdot1ConfigVlanNameTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpXdot1ConfigVlanNameEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
    "The table that controls selection of LLDP VLAN name TLV
    instances to be transmitted on individual ports."
    ::= { lldpXdot1Config 2 }

lldpXdot1ConfigVlanNameEntry OBJECT-TYPE
SYNTAX      LldpXdot1ConfigVlanNameEntry
MAX-ACCESS not-accessible
STATUS     current
DESCRIPTION
    "LLDP configuration information that specifies the set of
    ports (represented as a PortList) on which the Local System
    VLAN name instance will be transmitted.

    This configuration object augments the lldpLocVlanEntry,
    therefore it is only present along with the VLAN Name instance
    contained in the associated lldpLocVlanNameEntry entry.

    If the agent is capable of storing non-volatile configuration,
    then each active lldpXdot1VlanConfigTxPortsEntry must be
    re-created (along with the corresponding
    lldpXdot1LocVlanNameEntry) after a re-initialization of the
    management system."
    AUGMENTS { lldpXdot1LocVlanNameEntry }
    ::= { lldpXdot1ConfigVlanNameTable 1 }

LldpXdot1ConfigVlanNameEntry ::= SEQUENCE {
    lldpXdot1ConfigVlanNameTxEnable TruthValue
}

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165 lldpXdot1ConfigVlanNameTxEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
170     "The boolean value that indicates whether the corresponding
        Local System VLAN name instance will be transmitted on the
        port defined by the given lldpXdot1LocVlanNameEntry.
        |
        <
        <
175     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"
    ::= { lldpXdot1ConfigVlanNameEntry 1 }

180 --
-- lldpXdot1ConfigProtoVlanTable : configure the transmission of the
-- protocol VLAN instances on set
-- of ports.
--

185 lldpXdot1ConfigProtoVlanTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot1ConfigProtoVlanEntry
    MAX-ACCESS  not-accessible
    STATUS      current
190     DESCRIPTION
        "The table that controls selection of LLDP Protocol VLAN
        TLV instances to be transmitted on individual ports."
    ::= { lldpXdot1Config 3 }

195 lldpXdot1ConfigProtoVlanEntry OBJECT-TYPE
    SYNTAX      LldpXdot1ConfigProtoVlanEntry
    MAX-ACCESS  not-accessible
    STATUS      current
200     DESCRIPTION
        "LLDP configuration information that specifies the set of
        ports (represented as a PortList) on which the Local System
        Protocol VLAN instance will be transmitted.

205     This configuration object augments the lldpXdot1LocVlanEntry,
        therefore it is only present along with the Protocol VLAN
        instance contained in the associated lldpXdot1LocVlanEntry
        entry.

210     Each active lldpXdot1ConfigProtoVlanEntry must be restored
        from non-volatile storage (along with the corresponding
        lldpXdot1LocProtoVlanEntry) after a re-initialization of
        the management system."
    AUGMENTS { lldpXdot1LocProtoVlanEntry }
    ::= { lldpXdot1ConfigProtoVlanTable 1 }

    LldpXdot1ConfigProtoVlanEntry ::= SEQUENCE {
        lldpXdot1ConfigProtoVlanTxEnable TruthValue
    }

220 lldpXdot1ConfigProtoVlanTxEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
225     DESCRIPTION
        "The boolean value that indicates whether the corresponding
        Local System Port and Protocol VLAN instance will
        be transmitted on the port defined by the given
        lldpXdot1LocProtoVlanEntry.
        |
        <
        <
230     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"
235     ::= { lldpXdot1ConfigProtoVlanEntry 1 }

--
-- lldpXdot1ConfigProtocolTable : configure the transmission of the
-- protocol instances on set
-- of ports.
--

    lldpXdot1ConfigProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot1ConfigProtocolEntry
245     MAX-ACCESS  not-accessible
    STATUS      current

```

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DESCRIPTION
    "The table that controls selection of LLDP Protocol
    TLV instances to be transmitted on individual ports."
250 ::= { lldpXdot1Config 4 }

lldpXdot1ConfigProtocolEntry OBJECT-TYPE
SYNTAX      LldpXdot1ConfigProtocolEntry
MAX-ACCESS  not-accessible
255 STATUS    current
DESCRIPTION
    "LLDP configuration information that specifies the set of
    ports (represented as a PortList) on which the Local System
    Protocol instance will be transmitted."
260
    This configuration object augments the lldpXdot1LocProtoEntry,
    therefore it is only present along with the Protocol instance
    contained in the associated lldpXdot1LocProtoEntry entry.

265 Each active lldpXdot1ConfigProtocolEntry must be restored
    from non-volatile storage (along with the corresponding
    lldpXdot1LocProtocolEntry) after a re-initialization of the
    management system."
AUGMENTS { lldpXdot1LocProtocolEntry }
270 ::= { lldpXdot1ConfigProtocolTable 1 }

LldpXdot1ConfigProtocolEntry ::= SEQUENCE {
    lldpXdot1ConfigProtocolTxEnable TruthValue
}
275

lldpXdot1ConfigProtocolTxEnable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
280 STATUS    current
DESCRIPTION
    "The boolean value that indicates whether the corresponding
    Local System Protocol Identity instance will be transmitted
    on the port defined by the given lldpXdot1LocProtocolEntry."

285 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"
290 ::= { lldpXdot1ConfigProtocolEntry 1 }

-----
-- IEEE 802.1 - Local System Information
-----

lldpXdot1LocTable OBJECT-TYPE
295 SYNTAX      SEQUENCE OF LldpXdot1LocEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains one row per port for IEEE 802.1
    organizationally defined LLDP extension on the local system
    known to this agent."
300 ::= { lldpXdot1LocalData 1 }

lldpXdot1LocEntry OBJECT-TYPE
305 SYNTAX      LldpXdot1LocEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Information about IEEE 802.1 organizationally defined
    LLDP extension."
310 INDEX      { lldpLocPortNum }
    ::= { lldpXdot1LocTable 1 }

LldpXdot1LocEntry ::= SEQUENCE {
315     lldpXdot1LocPortVlanId      Integer32
}

lldpXdot1LocPortVlanId OBJECT-TYPE
320 SYNTAX      Integer32(0|1..4094)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The integer value used to identify the port's VLAN identifier
    associated with the local system. A value of zero shall
    be used if the system either does not know the PVID or does
    not support port-based VLAN operation."
325 REFERENCE
    "IEEE 802.1AB/D8 section G.2.1"

```

```

DESCRIPTION
    "The table that controls selection of LLDP Protocol
    TLV instances to be transmitted on individual ports."
    ::= { lldpXdot1Config 4 }

lldpXdot1ConfigProtocolEntry OBJECT-TYPE
SYNTAX      LldpXdot1ConfigProtocolEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "LLDP configuration information that specifies the set of
    ports (represented as a PortList) on which the Local System
    Protocol instance will be transmitted."

    This configuration object augments the lldpXdot1LocProtoEntry,
    therefore it is only present along with the Protocol instance
    contained in the associated lldpXdot1LocProtoEntry entry.

    If the agent is capable of storing non-volatile configuration,
    then each active lldpXdot1ProtoConfigEntry must be re-created
    (along with the corresponding lldpXdot1LocProtoEntry) after
    a re-initialization of the management system."
AUGMENTS { lldpXdot1LocProtocolEntry }
    ::= { lldpXdot1ConfigProtocolTable 1 }

LldpXdot1ConfigProtocolEntry ::= SEQUENCE {
    lldpXdot1ConfigProtocolTxEnable TruthValue
}

lldpXdot1ConfigProtocolTxEnable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The boolean value that indicates whether the corresponding
    Local System Protocol Identity instance will be transmitted
    on the port defined by the given lldpXdot1LocProtocolEntry."

REFERENCE
    "IEEE 802.1AB/D8 section 10.2.1.1"
    ::= { lldpXdot1ConfigProtocolEntry 1 }

-----
-- IEEE 802.1 - Local System Information
-----

lldpXdot1LocTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpXdot1LocEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains one row per port for IEEE 802.1
    organizationally defined LLDP extension on the local system
    known to this agent."
    ::= { lldpXdot1LocalData 1 }

lldpXdot1LocEntry OBJECT-TYPE
SYNTAX      LldpXdot1LocEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Information about IEEE 802.1 organizationally defined
    LLDP extension."
INDEX      { lldpLocPortNum }
    ::= { lldpXdot1LocTable 1 }

LldpXdot1LocEntry ::= SEQUENCE {
    lldpXdot1LocPortVlanId      Integer32
}

lldpXdot1LocPortVlanId OBJECT-TYPE
SYNTAX      Integer32(0..4094)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The integer value used to identify the port's VLAN identifier
    associated with the local system. A value of zero shall
    be used if the system either does not know the PVID or does
    not support port-based VLAN operation."
REFERENCE
    "IEEE 802.1AB/D8 section G.2.1"

```

```

330 ::= { lldpXdot1LocEntry 1 }
--
-- lldpXdot1LocProtoVlanTable: Port and Protocol VLAN information
--
335 lldpXdot1LocProtoVlanTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot1LocProtoVlanEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
340 "This table contains one or more rows per Port and Protocol
VLAN information about the local system."
::= { lldpXdot1LocalData 2 }

lldpXdot1LocProtoVlanEntry OBJECT-TYPE
345 SYNTAX LldpXdot1LocProtoVlanEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
350 "Port and protocol VLAN name Information about a particular
port component. There may be multiple protocol VLANs,
identified by a particular lldpXdot1LocProtoVlanId, configured
on the given port."
INDEX { lldpLocPortNum,
lldpXdot1LocProtoVlanId }
355 ::= { lldpXdot1LocProtoVlanTable 1 }

LldpXdot1LocProtoVlanEntry ::= SEQUENCE {
lldpXdot1LocProtoVlanId Integer32,
lldpXdot1LocProtoVlanSupported TruthValue,
360 lldpXdot1LocProtoVlanEnabled TruthValue
}

lldpXdot1LocProtoVlanId OBJECT-TYPE
365 SYNTAX Integer32(0|1..4094)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
370 "The integer value used to identify the port and protocol
VLANs associated with the given port associated with the
local system. A value of zero shall be used if the system
either does not know the protocol VLAN ID (PPVID) or does
not support port and protocol VLAN operation."
REFERENCE
375 "IEEE 802.1AB/D8 section G.3.2"
::= { lldpXdot1LocProtoVlanEntry 1 }

lldpXdot1LocProtoVlanSupported OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
380 STATUS current
DESCRIPTION
"The truth value used to indicate whether the given port
(associated with the local system) supports port and protocol
VLANs."
385 REFERENCE
"IEEE 802.1AB/D8 section G.3.1"
::= { lldpXdot1LocProtoVlanEntry 2 }

lldpXdot1LocProtoVlanEnabled OBJECT-TYPE
390 SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
395 "The truth value used to indicate whether the port and
protocol VLANs are enabled on the given port associated with
the local system."
REFERENCE
"IEEE 802.1AB/D8 section G.3.1"
400 ::= { lldpXdot1LocProtoVlanEntry 3 }
--
-- lldpXdot1LocVlanNameTable : VLAN name information about the local system
--
405 lldpXdot1LocVlanNameTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot1LocVlanNameEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
410 "This table contains one or more rows per IEEE 802.1Q VLAN
|
::= { lldpXdot1LocEntry 1 }
--
-- lldpXdot1LocProtoVlanTable: Port and Protocol VLAN information
--
lldpXdot1LocProtoVlanTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot1LocProtoVlanEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
lldpXdot1LocProtoVlanEntry OBJECT-TYPE
SYNTAX LldpXdot1LocProtoVlanEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
INDEX { lldpLocPortNum,
lldpXdot1LocProtoVlanId }
::= { lldpXdot1LocalData 2 }

LldpXdot1LocProtoVlanEntry ::= SEQUENCE {
lldpXdot1LocProtoVlanId Integer32,
lldpXdot1LocProtoVlanSupported TruthValue,
lldpXdot1LocProtoVlanEnabled TruthValue
}

lldpXdot1LocProtoVlanId OBJECT-TYPE
SYNTAX Integer32(0..4094)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The integer value used to identify the port and protocol
VLANs associated with the given port associated with the
local system. A value of zero shall be used if the system
either does not know the protocol VLAN ID (PPVID) or does
not support port and protocol VLAN operation."
REFERENCE
"IEEE 802.1AB/D8 section G.3.2"
::= { lldpXdot1LocProtoVlanEntry 1 }

lldpXdot1LocProtoVlanSupported 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 port and protocol
VLANs."
REFERENCE
"IEEE 802.1AB/D8 section G.3.1"
::= { lldpXdot1LocProtoVlanEntry 2 }

lldpXdot1LocProtoVlanEnabled OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The truth value used to indicate whether the port and
protocol VLANs are enabled on the given port associated with
the local system."
REFERENCE
"IEEE 802.1AB/D8 section G.3.1"
::= { lldpXdot1LocProtoVlanEntry 3 }
--
-- lldpXdot1LocVlanNameTable : VLAN name information about the local system
--
lldpXdot1LocVlanNameTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpXdot1LocVlanNameEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains one or more rows per VLAN name

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        name information on the local system known to this agent."
        ::= { lldpXdot1LocalData 3 }

lldpXdot1LocVlanNameEntry OBJECT-TYPE
415 SYNTAX      LldpXdot1LocVlanNameEntry
    MAX-ACCESS not-accessible
    STATUS      current
    DESCRIPTION
        "VLAN name Information about a particular port component.
420         There may be multiple VLANs, identified by a particular
        lldpXdot1LocVlanId, configured on the given port."
    INDEX      { lldpLocPortNum,
                lldpXdot1LocVlanId }
    ::= { lldpXdot1LocVlanNameTable 1 }

425 LldpXdot1LocVlanNameEntry ::= SEQUENCE {
        lldpXdot1LocVlanId  VlanId,
        lldpXdot1LocVlanName SnmpAdminString
    }

430 lldpXdot1LocVlanId OBJECT-TYPE
    SYNTAX      VlanId
    MAX-ACCESS not-accessible
    STATUS      current
435 DESCRIPTION
        "The integer value used to identify the IEEE 802.1Q
        VLAN IDs with which the given port is compatible."
    ::= { lldpXdot1LocVlanNameEntry 1 }

440 lldpXdot1LocVlanName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
445 "The string value used to identify VLAN name identified by the
        VLANs associated with the given port associated with the
        local system.

        This object may contain the value of the dot1QVLANStaticName
450 object (defined in IETF RFC 2674) identified with the given
        lldpXdot1LocVlanId."
    REFERENCE
        "IEEE 802.1AB/D8 section G.4.1"
    ::= { lldpXdot1LocVlanNameEntry 2 }

455 --
-- lldpXdot1LocProtocolTable : Protocol Identity information
--

460 lldpXdot1LocProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot1LocProtocolEntry
    MAX-ACCESS not-accessible
    STATUS      current
    DESCRIPTION
465 "This table contains one or more rows per protocol identity
        information on the local system known to this agent."
    REFERENCE
        "IEEE 802.1AB/D8 section G.5"
    ::= { lldpXdot1LocalData 4 }

470 lldpXdot1LocProtocolEntry OBJECT-TYPE
    SYNTAX      LldpXdot1LocProtocolEntry
    MAX-ACCESS not-accessible
    STATUS      current
475 DESCRIPTION
        "Information about particular protocols that are accessible
        through the given port component.

        There may be multiple protocols, identified by particular
480 lldpXdot1ProtocolIndex, and lldpLocPortNum."
    REFERENCE
        "IEEE 802.1AB/D8 section G.5"
    INDEX      { lldpLocPortNum,
                lldpXdot1LocProtocolIndex }
485 ::= { lldpXdot1LocProtocolTable 1 }

LldpXdot1LocProtocolEntry ::= SEQUENCE {
        lldpXdot1LocProtocolIndex Integer32,
        lldpXdot1LocProtocolId   OCTET STRING
490 }

lldpXdot1LocProtocolIndex OBJECT-TYPE
        information on the local system known to this agent."
        ::= { lldpXdot1LocalData 3 }

lldpXdot1LocVlanNameEntry OBJECT-TYPE
    SYNTAX      LldpXdot1LocVlanNameEntry
    MAX-ACCESS not-accessible
    STATUS      current
    DESCRIPTION
        "VLAN name Information about a particular port component.
        There may be multiple VLANs, identified by a particular
        lldpXdot1LocVlanId, configured on the given port."
    INDEX      { lldpLocPortNum,
                lldpXdot1LocVlanId }
    ::= { lldpXdot1LocVlanNameTable 1 }

LldpXdot1LocVlanNameEntry ::= SEQUENCE {
        lldpXdot1LocVlanId  Integer32,
        lldpXdot1LocVlanName SnmpAdminString
    }

lldpXdot1LocVlanId OBJECT-TYPE
    SYNTAX      Integer32(1..4094)
    MAX-ACCESS not-accessible
    STATUS      current
    DESCRIPTION
        "The integer value used to identify the IEEE 802.1Q
        VLAN IDs with which the given port is compatible."
    ::= { lldpXdot1LocVlanNameEntry 1 }

lldpXdot1LocVlanName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
        "The string value used to identify VLAN name identified by the
        VLANs associated with the given port associated with the
        local system."
    REFERENCE
        "IEEE 802.1AB/D8 section G.4.1"
    ::= { lldpXdot1LocVlanNameEntry 2 }

--
-- lldpXdot1LocProtocolTable : Protocol Identity information
--

lldpXdot1LocProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot1LocProtocolEntry
    MAX-ACCESS not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one or more rows per protocol information
        on the local system known to this agent."
    ::= { lldpXdot1LocalData 4 }

lldpXdot1LocProtocolEntry OBJECT-TYPE
    SYNTAX      LldpXdot1LocProtocolEntry
    MAX-ACCESS not-accessible
    STATUS      current
    DESCRIPTION
        "Protocol information about a particular port component.
        There may be multiple protocols, identified by a particular
        lldpXdot1ProtocolIndex, configured on the given port."
    INDEX      { lldpLocPortNum,
                lldpXdot1LocProtocolIndex }
    ::= { lldpXdot1LocProtocolTable 1 }

LldpXdot1LocProtocolEntry ::= SEQUENCE {
        lldpXdot1LocProtocolIndex Integer32,
        lldpXdot1LocProtocolId   OCTET STRING
    }

lldpXdot1LocProtocolIndex OBJECT-TYPE

```

```

SYNTAX      Integer32(1..2147483647)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
  "This object represents an arbitrary local integer value used
  by this agent to identify a particular protocol identity."
 ::= { lldpXdot1LocProtocolEntry 1 }
500
lldpXdot1LocProtocolId OBJECT-TYPE
SYNTAX      OCTET STRING (SIZE (1..255))
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The octet string value used to identify the protocols
  associated with the given port of the local system."
REFERENCE
  "IEEE 802.1AB/D8 section G.5.1"
510 ::= { lldpXdot1LocProtocolEntry 2 }

-----
-- IEEE 802.1 - Remote System Information
-----
515
lldpXdot1RemTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpXdot1RemEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
  "This table contains one or more rows per physical network
  connection known to this agent. The agent may wish to
  ensure that only one lldpXdot1RemEntry is present for
  each local port, or it may choose to maintain multiple
  lldpXdot1RemEntries for the same local port."
525 ::= { lldpXdot1RemTable 1 }

lldpXdot1RemEntry OBJECT-TYPE
SYNTAX      LldpXdot1RemEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
  "Information about a particular port component."
530 INDEX      { lldpRemTimeMark,
               lldpRemLocalPortNum,
               lldpRemIndex }
 ::= { lldpXdot1RemTable 1 }

LldpXdot1RemEntry ::= SEQUENCE {
540   lldpXdot1RemPortVlanId      Integer32
}

lldpXdot1RemPortVlanId OBJECT-TYPE
SYNTAX      Integer32(0|1..4094)
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
  "The integer value used to identify the port's VLAN identifier
  associated with the remote system. If the remote system
  either does not know the PVID or does not support port-based
  VLAN operation, the value of lldpXdot1RemPortVlanId should
  be zero."
550 REFERENCE
  "IEEE 802.1AB/D8 section G.2.1"
 ::= { lldpXdot1RemEntry 1 }

lldpXdot1RemProtoVlanTable OBJECT-TYPE
SYNTAX      SEQUENCE OF LldpXdot1RemProtoVlanEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
  "This table contains one or more rows per Port and Protocol
  VLAN information about the remote system, received on the
  given port."
560 ::= { lldpXdot1RemTable 2 }

lldpXdot1RemProtoVlanEntry OBJECT-TYPE
SYNTAX      LldpXdot1RemProtoVlanEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
  "Port and protocol VLAN name information about a particular
  port component. There may be multiple protocol VLANs,
  identified by a particular lldpXdot1RemProtoVlanId, configured

```

```

575      on the remote system."
INDEX   { lldpRemTimeMark,
          lldpRemLocalPortNum,
          lldpRemIndex,
          lldpXdgot1RemProtoVlanId }
580 ::= { lldpXdgot1RemProtoVlanTable 1 }

LldpXdgot1RemProtoVlanEntry ::= SEQUENCE {
    lldpXdgot1RemProtoVlanId   Integer32,
    lldpXdgot1RemProtoVlanSupported TruthValue,
585     lldpXdgot1RemProtoVlanEnabled TruthValue
}

lldpXdgot1RemProtoVlanId OBJECT-TYPE
SYNTAX   Integer32(0|1..4094)
590 MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "The integer value used to identify the port and protocol
    VLANs associated with the given port associated with the
595     remote system.

    If port and protocol VLANs are not supported on the given
    port associated with the remote system, or if the port is
    not enabled with any port and protocol VLAN, the value of
600     lldpXdgot1RemProtoVlanId should be zero."
REFERENCE
    "IEEE 802.1AB/D8 section G.3.2"
 ::= { lldpXdgot1RemProtoVlanEntry 1 }

605 lldpXdgot1RemProtoVlanSupported OBJECT-TYPE
SYNTAX   TruthValue
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
610     "The truth value used to indicate whether the given port
    (associated with the remote system) is capable of supporting
    port and protocol VLANs."
REFERENCE
    "IEEE 802.1AB/D8 section G.3.1"
615 ::= { lldpXdgot1RemProtoVlanEntry 2 }

lldpXdgot1RemProtoVlanEnabled OBJECT-TYPE
SYNTAX   TruthValue
MAX-ACCESS read-only
620 STATUS   current
DESCRIPTION
    "The truth value used to indicate whether the port and
    protocol VLANs are enabled on the given port associated with
    the remote system."
625 REFERENCE
    "IEEE 802.1AB/D8 section G.3.1"
 ::= { lldpXdgot1RemProtoVlanEntry 3 }

630 --
-- lldpXdgot1RemVlanNameTable : VLAN name information of the remote
--                               systems
--

635 lldpXdgot1RemVlanNameTable OBJECT-TYPE
SYNTAX   SEQUENCE OF LldpXdgot1RemVlanNameEntry
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
640     "This table contains one or more rows per IEEE 802.1Q VLAN
    name information about the remote system, received on the
    given port."
REFERENCE
    "IEEE 802.1AB/D8 section G.4.3"
645 ::= { lldpXdgot1RemoteData 3 }

lldpXdgot1RemVlanNameEntry OBJECT-TYPE
SYNTAX   LldpXdgot1RemVlanNameEntry
MAX-ACCESS not-accessible
650 STATUS   current
DESCRIPTION
    "VLAN name Information about a particular port component.
    There may be multiple VLANs, identified by a particular
    lldpXdgot1RemVlanId, received on the given port."
655 INDEX   { lldpRemTimeMark,
          lldpRemLocalPortNum,

```



```

        lldpRemIndex,
        lldpXdot1RemVlanId }
    ::= { lldpXdot1RemVlanNameTable 1 }
660 LldpXdot1RemVlanNameEntry ::= SEQUENCE {
        lldpXdot1RemVlanId      VlanId,
        lldpXdot1RemVlanName   SnmpAdminString
    }
665 lldpXdot1RemVlanId OBJECT-TYPE
    SYNTAX      VlanId
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The integer value used to identify the IEEE 802.1Q
        VLAN IDs with which the given port of the remote system
        is compatible."
    ::= { lldpXdot1RemVlanNameEntry 1 }
675 lldpXdot1RemVlanName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The string value used to identify VLAN name identified by the
        VLAN Id associated with the remote system."
    REFERENCE
        "IEEE 802.1AB/D8 section G.4.3"
680 ::= { lldpXdot1RemVlanNameEntry 2 }

--
-- lldpXdot1RemProtocolTable : Protocol information of the remote systems
--
690 lldpXdot1RemProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpXdot1RemProtocolEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
695 "This table contains one or more rows per protocol information
        about the remote system, received on the given port."
    ::= { lldpXdot1RemoteData 4 }

700 lldpXdot1RemProtocolEntry OBJECT-TYPE
    SYNTAX      LldpXdot1RemProtocolEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
705 "Protocol information about a particular port component.
        There may be multiple protocols, identified by a particular
        lldpXdot1ProtocolIndex, received on the given port."
    INDEX      { lldpRemTimeMark,
                lldpRemLocalPortNum,
                lldpRemIndex,
                lldpXdot1RemProtocolIndex }
710 ::= { lldpXdot1RemProtocolTable 1 }

LldpXdot1RemProtocolEntry ::= SEQUENCE {
715 lldpXdot1RemProtocolIndex Integer32,
        lldpXdot1RemProtocolId  OCTET STRING
    }

720 lldpXdot1RemProtocolIndex OBJECT-TYPE
    SYNTAX      Integer32(1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
725 "This object represents an arbitrary local integer value used
        by this agent to identify a particular protocol identity."
    ::= { lldpXdot1RemProtocolEntry 1 }

lldpXdot1RemProtocolId OBJECT-TYPE
730 SYNTAX      OCTET STRING (SIZE (1..255))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The octet string value used to identify the protocols
        associated with the given port of remote system."
735 REFERENCE
        "IEEE 802.1AB/D8 section G.5.2"
    ::= { lldpXdot1RemProtocolEntry 2 }

```

```

740 -- conformance information
lldpXdot1Conformance OBJECT IDENTIFIER ::= { lldpXdot1MIB 2 }
lldpXdot1Compliances OBJECT IDENTIFIER ::= { lldpXdot1Conformance 1 }
lldpXdot1Groups      OBJECT IDENTIFIER ::= { lldpXdot1Conformance 2 }
745
-- compliance statements
lldpXdot1Compliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
750   "The compliance statement for SNMP entities which implement
      the IEEE 802.1 organizationally defined LLDP extension MIB."
  MODULE -- this module
    MANDATORY-GROUPS { lldpXdot1ConfigGroup,
755                      lldpXdot1RemSysGroup
    }
    GROUP lldpXdot1OptLocSysGroup
  DESCRIPTION
760   "This object represents the information associated with
      the IEEE 802.1 organizationally defined optional TLVs,
      therefore the agent may not implement them."
  ::= { lldpXdot1Compliances 1 }

-- MIB groupings
765
lldpXdot1ConfigGroup  OBJECT-GROUP
  OBJECTS {
    lldpXdot1ConfigPortVlanTxEnable,
770    lldpXdot1ConfigVlanNameTxEnable,
    lldpXdot1ConfigProtoVlanTxEnable,
    lldpXdot1ConfigProtocolTxEnable
  }
  STATUS current
  DESCRIPTION
775   "The collection of objects which are used to configure the
      IEEE 802.1 organizationally defined LLDP extension
      implementation behavior.

      This group is mandatory for agents which implement the
780   IEEE 802.1 organizationally defined LLDP extension."
  ::= { lldpXdot1Groups 1 }

lldpXdot1OptLocSysGroup  OBJECT-GROUP
785  OBJECTS {
    lldpXdot1LocPortVlanId,
    lldpXdot1LocProtoVlanSupported,
    lldpXdot1LocProtoVlanEnabled,
    lldpXdot1LocVlanName,
    lldpXdot1LocProtocolId
790  }
  STATUS current
  DESCRIPTION
795   "The collection of objects which are used to represent
      IEEE 802.1 organizationally defined LLDP extension associated
      with the Local Device Information.

      This group is mandatory for agents which implement the
800   IEEE 802.1 organizationally defined LLDP extension."
  ::= { lldpXdot1Groups 2 }

lldpXdot1RemSysGroup  OBJECT-GROUP
805  OBJECTS {
    lldpXdot1RemPortVlanId,
    lldpXdot1RemProtoVlanSupported,
    lldpXdot1RemProtoVlanEnabled,
    lldpXdot1RemVlanName,
    lldpXdot1RemProtocolId
  }
  STATUS current
810  DESCRIPTION
    "The collection of objects which are used to represent LLDP
      802.1 organizational extension Local Device Information.

      This group is mandatory for agents which implement the
815  LLDP 802.1 organizational extension."
  ::= { lldpXdot1Groups 3 }

END

```

```

-- conformance information
lldpXdot1Conformance OBJECT IDENTIFIER ::= { lldpXdot1MIB 2 }
lldpXdot1Compliances OBJECT IDENTIFIER ::= { lldpXdot1Conformance 1 }
lldpXdot1Groups      OBJECT IDENTIFIER ::= { lldpXdot1Conformance 2 }

-- compliance statements
lldpXdot1Compliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "The compliance statement for SNMP entities which implement
      the IEEE 802.1 organizationally defined LLDP extension MIB."
  MODULE -- this module
    MANDATORY-GROUPS { lldpXdot1ConfigGroup,
                        lldpXdot1RemSysGroup
    }
    GROUP lldpXdot1OptLocSysGroup
  DESCRIPTION
    "This object represents the information associated with
      the IEEE 802.1 organizationally defined optional TLVs,
      therefore the agent may not implement them."
  ::= { lldpXdot1Compliances 1 }

-- MIB groupings
lldpXdot1ConfigGroup  OBJECT-GROUP
  OBJECTS {
    lldpXdot1ConfigPortVlanTxEnable,
    lldpXdot1ConfigVlanNameTxEnable,
    lldpXdot1ConfigProtoVlanTxEnable,
    lldpXdot1ConfigProtocolTxEnable
  }
  STATUS current
  DESCRIPTION
    "The collection of objects which are used to configure the
      IEEE 802.1 organizationally defined LLDP extension
      implementation behavior.

      This group is mandatory for agents which implement the
      IEEE 802.1 organizationally defined LLDP extension."
  ::= { lldpXdot1Groups 1 }

lldpXdot1OptLocSysGroup  OBJECT-GROUP
  OBJECTS {
    lldpXdot1LocPortVlanId,
    lldpXdot1LocProtoVlanSupported,
    lldpXdot1LocProtoVlanEnabled,
    lldpXdot1LocVlanName,
    lldpXdot1LocProtocolId
  }
  STATUS current
  DESCRIPTION
    "The collection of objects which are used to represent
      IEEE 802.1 organizationally defined LLDP extension associated
      with the Local Device Information.

      This group is mandatory for agents which implement the
      IEEE 802.1 organizationally defined LLDP extension."
  ::= { lldpXdot1Groups 2 }

lldpXdot1RemSysGroup  OBJECT-GROUP
  OBJECTS {
    lldpXdot1RemPortVlanId,
    lldpXdot1RemProtoVlanSupported,
    lldpXdot1RemProtoVlanEnabled,
    lldpXdot1RemVlanName,
    lldpXdot1RemProtocolId
  }
  STATUS current
  DESCRIPTION
    "The collection of objects which are used to represent LLDP
      802.1 organizational extension Local Device Information.

      This group is mandatory for agents which implement the
      LLDP 802.1 organizational extension."
  ::= { lldpXdot1Groups 3 }

END

```