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**Information technology —
Telecommunications and information
exchange between systems — Local
and metropolitan area networks —
Specific requirements —**

**Part 1Q:
Bridges and bridged networks**

**TECHNICAL CORRIGENDUM 1:
Technical and editorial corrections**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Réseaux locaux et métropolitains
— Exigences spécifiques —*

Partie 1Q: Ponts et réseaux pontés

*RECTIFICATIF TECHNIQUE 2: Corrections techniques et
rédactionnelles*



Reference number
ISO/IEC/IEEE 8802-1Q:2016/Cor.1:2017(E)

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IEEE Std 802.1Q™-2014/Cor 1-2015

(Corrigendum to
IEEE Std 802.1Q-2014)

**IEEE Standard for
Local and metropolitan area networks—**

Bridges and Bridged Networks—

**Corrigendum 1: Technical and editorial
corrections**

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Approved 5 December 2015

IEEE-SA Standards Board

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Abstract: Correction of technical and editorial errors identified by the IEEE 802.1 maintenance activity are presented in this document.

Keywords: corrigendum, Bridged Local Area Networks, ECMP, Equal Cost Multiple Paths, IEEE 802.1Q™, LANs, local area networks, MAC Bridges, MANs, metropolitan area networks, Shortest Path Bridging, Virtual Bridged Local Area Networks

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Introduction

This introduction is not part of IEEE Std 802.1Q-2014/Cor 1-2015, IEEE Standard for Local and metropolitan area networks—Bridges and Bridged Networks—Corrigendum 1: Technical and editorial corrections.

This corrigendum to IEEE Std 802.1Q-2014 corrects the small number of errors to the base text identified by the IEEE 802.1 maintenance activity. These changes are needed in order to correct technical and/or editorial errors in the existing text.

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IEEE Standard for Local and metropolitan area networks—

Bridges and Bridged Networks—

Corrigendum 1: Technical and editorial corrections

(This corrigendum is based on IEEE Std 802.1Q™-2014.)

NOTE—The editing instructions contained in this amendment define how to merge the material contained here into the base document and its other amendments to form the new comprehensive standard.

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¹Notes in text, tables, and figures are given for information only, and do not contain requirements needed to implement the standard.

12. Bridge management

12.22 Stream Reservation Protocol (SRP) entities

12.22.5 SRP Reservations Table

Change row 5 of Table 12-17 as follows:

Table 12-17—SRP Reservations Table row elements

Name	Data type	Operations supported	Conformance	References
Failed Bridge ID <u>system ID</u>	BridgeId	R	BE	35.2.2.8.7(a)

17. Management Information Base (MIB)

17.2 Structure of the MIB

17.2.14 Structure of the IEEE8021-SRP-MIB

Change row 31 and row 32 of Table 17-20 as follows:

Table 17-20—SRP MIB structure and object cross reference

MIB table	MIB object	References
	ieee8021SrpReservationFailureBridgeIdSystemId	Bridge-system ID of Bridge-system that changed Talker Advertise to Talker Failed, 12.22.5, 35.2.2.8.7a.
	ieee8021SrpReservationFailureCode	Failure Code associated with Bridge-system that changed Talker Advertise to Talker Failed, 12.22.5, 35.2.2.8.7b.

17.7 MIB modules

17.7.12 Definitions for the IEEE8021-FQTSS-MIB module

Replace the text of 17.7.12 with the following:

```
IEEE8021-FQTSS-MIB DEFINITIONS ::= BEGIN

-- =====
-- MIB for support of the Forwarding & Queuing Enhancements
-- for Time Sensitive Streams (FQTSS) in 802.1Q Bridges.
-- =====

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Unsigned32
        FROM SNMPv2-SMI
    TEXTUAL-CONVENTION,
    TruthValue,
    RowStatus
        FROM SNMPv2-TC
    MODULE-COMPLIANCE,
    OBJECT-GROUP
        FROM SNMPv2-CONF
    ieee802dot1mibs,
    IEEE8021PriorityValue
        FROM IEEE8021-TC-MIB
    ieee8021BridgeBaseComponentId,
    ieee8021BridgeBasePort
        FROM IEEE8021-BRIDGE-MIB
    ;

ieee8021FqtssMib MODULE-IDENTITY
    LAST-UPDATED "201512020000Z" -- December 2, 2015
    ORGANIZATION "IEEE 802.1 Working Group"
    CONTACT-INFO
        " WG-URL: http://ieee802.org/1/
          WG-E-Mail: STDS-802-1-L@LISTSERV.IEEE.ORG

          Contact: IEEE 802.1 Working Group Chair
          Postal: C/O IEEE 802.1 Working Group
                IEEE Standards Association
                445 Hoes Lane
                Piscataway
                NJ 08854
                USA
          E-mail: STDS-802-1-L@LISTSERV.IEEE.ORG"
    DESCRIPTION
        "The Bridge MIB module for managing devices that support
        the Forwarding and Queuing Enhancements
        for Time Sensitive Streams.

        Unless otherwise indicated, the references in this MIB
        module are to IEEE Std 802.1Q-2014.

        Copyright (C) IEEE (2015).
        This version of this MIB module is part of IEEE802.1Q;
        see the draft itself for full legal notices."
```

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Corrigendum 1: Technical and editorial corrections

REVISION "201512020000Z" -- December 2, 2015

DESCRIPTION

"Published as part of IEEE Std 802.1Q 2014 Cor-1.
ETS code point added to the textual convention
IEEE8021FqtssTxSelectionAlgorithmIDValue "

REVISION "201412150000Z" -- December 15, 2014

DESCRIPTION

"Published as part of IEEE Std 802.1Q 2014 revision.
Cross references updated and corrected."

REVISION "201102270000Z" -- February 27, 2011

DESCRIPTION

"Minor edits to contact information etc. as part of
2011 revision of IEEE Std 802.1Q."

REVISION "200910010000Z" -- October 1, 2009

DESCRIPTION

"Initial revision, included in IEEE 802.1Qav."
::= { ieee802dot1mibs 16 }

-- =====
-- Textual Conventions
-- =====

IEEE8021FqtssTrafficClassValue ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An 802.1 FQTSS traffic class value.
This is the numerical value associated with a traffic
class in a Bridge. Larger values are associated with
higher priority traffic classes."

REFERENCE "12.20.1"

SYNTAX Unsigned32 (0..7)

IEEE8021FqtssDeltaBandwidthValue ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An 802.1 FQTSS delta bandwidth percentage,
represented as a fixed point number scaled by
1,000,000."

REFERENCE "12.20.1, 34.4"

SYNTAX Unsigned32 (0..100000000)

IEEE8021FqtssTxSelectionAlgorithmIDValue ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An 802.1 transmission selection algorithm identifier
value. This is an integer, with the following
interpretation placed on the value:

- 0: Strict priority algorithm,
- 1: Credit-based shaper algorithm,
- 2: Enhanced Transmission Selection algorithm,
- 3-255: Reserved for future standardization,
- 256-4294967295: Vendor-specific transmission selection

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Corrigendum 1: Technical and editorial corrections

algorithm identifiers, consisting of a four-octet integer, where the most significant 3 octets hold an OUI or CID value, and the least significant octet holds an integer value in the range 0-255 assigned by the owner of the OUI or CID."

REFERENCE "8.6.8, 12.20.2"

SYNTAX Unsigned32

-- =====
-- subtrees in the FQTSS MIB
-- =====

ieee8021FqtssNotifications
OBJECT IDENTIFIER ::= { ieee8021FqtssMib 0 }

ieee8021FqtssObjects
OBJECT IDENTIFIER ::= { ieee8021FqtssMib 1 }

ieee8021FqtssConformance
OBJECT IDENTIFIER ::= { ieee8021FqtssMib 2 }

ieee8021FqtssBap
OBJECT IDENTIFIER ::= { ieee8021FqtssObjects 1 }

ieee8021FqtssMappings
OBJECT IDENTIFIER ::= { ieee8021FqtssObjects 2 }

-- =====
-- The ieee8021FqtssBap subtree
-- This subtree defines the objects necessary for the management
-- of bandwidth allocation for queues that support FQTSS.
-- =====

-- =====
-- the ieee8021FqtssBapTable
-- =====

ieee8021FqtssBapTable OBJECT-TYPE
SYNTAX SEQUENCE OF Ieee8021FqtssBapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table containing a set of bandwidth availability parameters for each traffic class that supports the credit-based shaper algorithm.
All writable objects in this table must be persistent over power up restart/reboot."
REFERENCE "12.20.1"
::= { ieee8021FqtssBap 1 }

ieee8021FqtssBapEntry OBJECT-TYPE
SYNTAX Ieee8021FqtssBapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A list of objects containing bandwidth allocation information for each traffic class that supports the credit-based shaper algorithm. Rows in the table are

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Corrigendum 1: Technical and editorial corrections

automatically created and deleted as a result of the operation of the algorithm described in 34.5. "

```

INDEX { ieee8021BridgeBaseComponentId,
        ieee8021BridgeBasePort,
        ieee8021FqtssBAPTrafficClass }
 ::= { ieee8021FqtssBapTable 1 }

```

```

Ieee8021FqtssBapEntry ::=
SEQUENCE {
    ieee8021FqtssBAPTrafficClass
        IEEE8021FqtssTrafficClassValue,
    ieee8021FqtssDeltaBandwidth
        IEEE8021FqtssDeltaBandwidthValue,
    ieee8021FqtssOperIdleSlopeMs
        Unsigned32,
    ieee8021FqtssOperIdleSlopeLs
        Unsigned32,
    ieee8021FqtssAdminIdleSlopeMs
        Unsigned32,
    ieee8021FqtssAdminIdleSlopeLs
        Unsigned32,
    ieee8021FqtssBapRowStatus
        RowStatus
}

```

ieee8021FqtssBAPTrafficClass OBJECT-TYPE

```

SYNTAX      IEEE8021FqtssTrafficClassValue
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "The traffic class number associated with the row of
    the table.

    A row in this table is created for each traffic class
    that supports the credit-based shaper algorithm. The
    recommended mappings of priorities to traffic classes
    for support of the credit-based shaper algorithm are
    described in 34.5."
REFERENCE   "12.20.2, 34.3, 34.5"
 ::= { ieee8021FqtssBapEntry 1 }

```

ieee8021FqtssDeltaBandwidth OBJECT-TYPE

```

SYNTAX      IEEE8021FqtssDeltaBandwidthValue
UNITS       "percent"
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The value of the deltaBandwidth parameter
    for the traffic class.
    This value is represented as a fixed point number
    scaled by a factor of 1,000,000; i.e., 100,000,000
    (the maximum value) represents 100%.

    The default value of the deltaBandwidth parameter
    for the highest numbered traffic class that supports
    the credit-based shaper algorithm is 75%; for all
    lower numbered traffic classes that support the
    credit-based shaper algorithm the default value is 0%."

```

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The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.20.1, 34.3"
::= { ieee8021FqtssBapEntry 2 }

ieee8021FqtssOperIdleSlopeMs OBJECT-TYPE

SYNTAX Unsigned32
UNITS "bits per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The most significant 32 bits of the bandwidth, in bits per second, that is currently allocated to the traffic class (idleSlope(N)). This object MUST be read at the same time as ieee8021FqtssOperIdleSlopeLs, which represents the LS 32 bits of the value, in order for the read operation to succeed.

If SRP is supported and in operation, then the reserved bandwidth is determined by the operation of SRP; otherwise, the value of ieee8021FqtssOperIdleSlopeMs is equal to the value of ieee8021FqtssAdminIdleSlopeMs.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.20.1, 34.3"
::= { ieee8021FqtssBapEntry 3 }

ieee8021FqtssOperIdleSlopeLs OBJECT-TYPE

SYNTAX Unsigned32
UNITS "bits per second"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The least significant 32 bits of the bandwidth, in bits per second, that is currently allocated to the traffic class (idleSlope(N)). This object MUST be read at the same time as ieee8021FqtssOperIdleSlopeMs, which represents the LS 32 bits of the value, in order for the read operation to succeed.

If SRP is supported and in operation, then the reserved bandwidth is determined by the operation of SRP; otherwise, the value of ieee8021FqtssOperIdleSlopeLs is equal to the value of ieee8021FqtssAdminIdleSlopeMs.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.20.1, 34.3"
::= { ieee8021FqtssBapEntry 4 }

ieee8021FqtssAdminIdleSlopeMs OBJECT-TYPE

SYNTAX Unsigned32
UNITS "bits per second"
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"The most significant 32 bits of the bandwidth,

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in bits per second, that the manager desires to allocate to the traffic class as `idleSlope(N)`. This object MUST be read or written at the same time as `ieee8021FqtssAdminIdleSlopeLs`, which represents the LS 32 bits of the value, in order for the read or write operation to succeed.

If SRP is supported and in operation, then the reserved bandwidth is determined by the operation of SRP, and any changes to the value of this object have no effect on the operational value of `idleSlope(N)`.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.20.1, 34.3"

DEFVAL { 0 }

::= { ieee8021FqtssBapEntry 5 }

`ieee8021FqtssAdminIdleSlopeLs` OBJECT-TYPE

SYNTAX Unsigned32

UNITS "bits per second"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The least significant 32 bits of the bandwidth, in bits per second, that the manager desires to allocate to the traffic class as `idleSlope(N)`. This object MUST be read or written at the same time as `ieee8021FqtssAdminIdleSlopeMs`, which represents the LS 32 bits of the value, in order for the read or write operation to succeed.

If SRP is supported and in operation, then the reserved bandwidth is determined by the operation of SRP, and any changes to the value of this object have no effect on the operational value of `idleSlope(N)`.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.20.1, 34.3"

DEFVAL { 0 }

::= { ieee8021FqtssBapEntry 6 }

`ieee8021FqtssBapRowStatus` OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates the status of an entry (row) in this table, and is used to create/delete entries.

The corresponding instances of the following objects must be set before this object can be made active(1):

`ieee8021FqtssBAPTrafficClass`

`ieee8021FqtssDeltaBandwidth`

`ieee8021FqtssOperIdleSlopeMs`

`ieee8021FqtssOperIdleSlopeLs`

`ieee8021FqtssAdminIdleSlopeMs`

`ieee8021FqtssAdminIdleSlopeLs`

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The corresponding instances of the following objects
may not be changed while this object is active(1):

```

ieee8021FqtssBAPTrafficClass"
::= { ieee8021FqtssBapEntry 7 }

-- =====
-- The ieee8021FqtssMappings subtree
-- This subtree defines the objects necessary for the assignment
-- of transmission selection algorithms to traffic classes,
-- and definition of regeneration table override values.
-- =====

-- =====
-- the ieee8021FqtssTxSelectionAlgorithmTable
-- =====

ieee8021FqtssTxSelectionAlgorithmTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF Ieee8021FqtssTxSelectionAlgorithmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table containing the assignment of transmission
        selection algorithms to traffic classes for the Port.
        This table provides management of the Transmission
        Selection Algorithm Table defined in 8.6.8.

        For a given Port, a row in the table exists for each
        traffic class that is supported by the Port.

        The default assignments of transmission selection
        algorithms to traffic classes in the table are made
        on instantiation of the table, in accordance
        with the defaults defined in 8.6.8 and 34.5.

        All writable objects in this table must be
        persistent over power up restart/reboot."
    REFERENCE   "8.6.8, 12.20.2, 34.5"
    ::= { ieee8021FqtssMappings 1 }

ieee8021FqtssTxSelectionAlgorithmEntry OBJECT-TYPE
    SYNTAX      Ieee8021FqtssTxSelectionAlgorithmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A list of objects that contain the mapping of a
        traffic class value to a transmission selection algorithm
        value."
    INDEX       { ieee8021BridgeBaseComponentId,
                  ieee8021BridgeBasePort,
                  ieee8021FqtssTrafficClass }
    ::= { ieee8021FqtssTxSelectionAlgorithmTable 1 }

Ieee8021FqtssTxSelectionAlgorithmEntry ::=
    SEQUENCE {
        ieee8021FqtssTrafficClass
            IEEE8021FqtssTrafficClassValue,
        ieee8021FqtssTxSelectionAlgorithmID
            IEEE8021FqtssTxSelectionAlgorithmIDValue
    }

```

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}

ieee8021FqtssTrafficClass OBJECT-TYPE

SYNTAX IEEE8021FqtssTrafficClassValue

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The traffic class to which the transmission selection algorithm is assigned.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "8.6.8, 12.20.2, 34.5"

::= { ieee8021FqtssTxSelectionAlgorithmEntry 1 }

ieee8021FqtssTxSelectionAlgorithmID OBJECT-TYPE

SYNTAX IEEE8021FqtssTxSelectionAlgorithmIDValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The identifier of the transmission selection algorithm assigned to the traffic class.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "8.6.8, 12.20.2, 34.5"

::= { ieee8021FqtssTxSelectionAlgorithmEntry 2 }

-- =====
-- the ieee8021FqtssSrpRegenOverrideTable
-- =====

ieee8021FqtssSrpRegenOverrideTable OBJECT-TYPE

SYNTAX SEQUENCE OF Ieee8021FqtssSrpRegenOverrideEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing the set of priority regeneration table override values for the Port.

The recommended default values of priorities associated with SR classes, and the corresponding override values, are defined in 6.9.4.

All writable objects in this table must be persistent over power up restart/reboot."

REFERENCE "35.1.4, 6.9.4, 12.20.3"

::= { ieee8021FqtssMappings 2 }

ieee8021FqtssSrpRegenOverrideEntry OBJECT-TYPE

SYNTAX Ieee8021FqtssSrpRegenOverrideEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of objects that contain the mapping of a priority value to a priority regeneration override value, and a boundary port indication.

Rows in the table exist for all priorities that are

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```

associated with SR classes."
INDEX { ieee8021BridgeBaseComponentId,
        ieee8021BridgeBasePort,
        ieee8021FqtssSrClassPriority }
 ::= { ieee8021FqtssSrpRegenOverrideTable 1 }

Ieee8021FqtssSrpRegenOverrideEntry ::=
SEQUENCE {
    ieee8021FqtssSrClassPriority
        IEEE8021PriorityValue,
    ieee8021FqtssPriorityRegenOverride
        IEEE8021PriorityValue,
    ieee8021FqtssSrpBoundaryPort
        TruthValue
}

ieee8021FqtssSrClassPriority OBJECT-TYPE
SYNTAX      IEEE8021PriorityValue
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "The priority value that is overridden at the
    SRP domain boundary. "
REFERENCE   "35.1.4, 6.9.4, 12.20.3"
 ::= { ieee8021FqtssSrpRegenOverrideEntry 1 }

ieee8021FqtssPriorityRegenOverride OBJECT-TYPE
SYNTAX      IEEE8021PriorityValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "The priority value that is used to override the
    priority regeneration table entry at the SRP
    domain boundary.

    The value of this object MUST be retained across
    reinitializations of the management system."
REFERENCE   "35.1.4, 6.9.4, 12.20.3"
 ::= { ieee8021FqtssSrpRegenOverrideEntry 2 }

ieee8021FqtssSrpBoundaryPort OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "The value of the SRPdomainBoundaryPort parameter
    (35.1.4) for the priority. "
REFERENCE   "35.1.4, 6.9.4, 12.20.3"
 ::= { ieee8021FqtssSrpRegenOverrideEntry 3 }

-- =====
-- IEEE8021 FQTSS MIB - Conformance Information
-- =====

ieee8021FqtssCompliances
    OBJECT IDENTIFIER ::= { ieee8021FqtssConformance 1 }
ieee8021FqtssGroups
    OBJECT IDENTIFIER ::= { ieee8021FqtssConformance 2 }

```

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```
-- =====
-- units of conformance
-- =====

-- =====
-- the ieee8021FqtssBap group
-- =====

ieee8021FqtssBapGroup OBJECT-GROUP
    OBJECTS {
        ieee8021FqtssDeltaBandwidth,
        ieee8021FqtssOperIdleSlopeMs,
        ieee8021FqtssOperIdleSlopeLs,
        ieee8021FqtssAdminIdleSlopeMs,
        ieee8021FqtssAdminIdleSlopeLs,
        ieee8021FqtssBapRowStatus
    }
    STATUS      current
    DESCRIPTION
        "Objects that define bandwidth allocation for FQTSS."
    ::= { ieee8021FqtssGroups 1 }

-- =====
-- the ieee8021FqtssTxSelectionAlgorithm group
-- =====

ieee8021FqtssTxSelectionAlgorithmGroup OBJECT-GROUP
    OBJECTS {
        ieee8021FqtssTxSelectionAlgorithmID
    }
    STATUS      current
    DESCRIPTION
        "Objects that define transmission selection
        mappings for FQTSS."
    ::= { ieee8021FqtssGroups 2 }

-- =====
-- the ieee8021FqtssBoundaryPort group
-- =====

ieee8021FqtssBoundaryPortGroup OBJECT-GROUP
    OBJECTS {
        ieee8021FqtssPriorityRegenOverride,
        ieee8021FqtssSrpBoundaryPort
    }
    STATUS      current
    DESCRIPTION
        "Objects that define boundary port priority override
        mappings for FQTSS."
    ::= { ieee8021FqtssGroups 3 }

-- =====
-- compliance statements
-- =====

ieee8021FqtssCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
```

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"The compliance statement for devices supporting forwarding and queuing for time sensitive streams.

Support of the objects defined in the IEEE8021-FQTSS MIB also requires support of the IEEE8021-BRIDGE-MIB; the provisions of 17.3.2 apply to implementations claiming support of the IEEE8021-FQTSS MIB. "

```
MODULE -- this module
  MANDATORY-GROUPS {
    ieee8021FqtssBapGroup,
    ieee8021FqtssTxSelectionAlgorithmGroup,
    ieee8021FqtssBoundaryPortGroup
  }

  ::= { ieee8021FqtssCompliances 1 }
```

END

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17.7.14 Definitions for the IEEE8021-SRP-MIB module

Replace the text of 17.7.14 with the following:

```
IEEE8021-SRP-MIB DEFINITIONS ::= BEGIN

-- =====
-- MIB for support of 802.1Qat Stream Reservation Protocol
-- (SRP) in 802.1Q Bridges.
-- =====

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Counter64,
    Unsigned32
        FROM SNMPv2-SMI
    MacAddress,
    TEXTUAL-CONVENTION,
    TruthValue
        FROM SNMPv2-TC
    MODULE-COMPLIANCE,
    OBJECT-GROUP
        FROM SNMPv2-CONF
    ieee802dot1mibs,
    IEEE8021PriorityCodePoint,
    IEEE8021VlanIndex
        FROM IEEE8021-TC-MIB
    IEEE8021FqtssTrafficClassValue
        FROM IEEE8021-FQTSS-MIB
    ieee8021BridgeBaseComponentId,
    ieee8021BridgeBaseEntry,
    ieee8021BridgeBasePort,
    ieee8021BridgeBasePortEntry
        FROM IEEE8021-BRIDGE-MIB
;

ieee8021SrpMib MODULE-IDENTITY
    LAST-UPDATED "201512020000Z" -- December 2, 2015
    ORGANIZATION "IEEE 802.1 Working Group"
    CONTACT-INFO
        "WG-URL: http://ieee802.org/1/
        WG-Email: STDS-802-1-L@LISTSERV.IEEE.ORG

        Contact: IEEE 802.1 Working Group Chair
        Postal: C/O IEEE 802.1 Working Group
                IEEE Standards Association
                445 Hoes Lane
                Piscataway
                NJ 08854
                USA
        E-mail: STDS-802-1-L@LISTSERV.IEEE.ORG"
    DESCRIPTION
        "The Bridge MIB module for managing devices that support
        the IEEE Std 802.1Q Stream Reservation Protocol.
```

Unless otherwise indicated, the references in this MIB

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module are to IEEE Std 802.1Q-2014.

Copyright (C) IEEE (2015).

This version of this MIB module is part of IEEE802.1Q;
see the draft itself for full legal notices."

REVISION "201512020000Z" -- December 2, 2015

DESCRIPTION

"Published as part of IEEE Std 802.1Q-2014 Cor-1.
ieee8021SrpReservationFailureBridgeId changed to
ieee8021SrpReservationFailureSystemId."

REVISION "201412150000Z" -- December 15, 2014

DESCRIPTION

"Published as part of IEEE Std 802.1Q 2014 revision.
Cross references updated and corrected."

REVISION "201102270000Z" -- February 27, 2011

DESCRIPTION

"Minor edits to contact information etc. as part of
2011 revision of Std 802.1Q."

REVISION "201004190000Z" -- April 19, 2010

DESCRIPTION

"Initial revision, included in IEEE 802.1Qat"
::= { ieee802dot1mibs 19 }

-- =====
-- Textual Conventions
-- =====

IEEE8021SrpStreamRankValue ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"An 802.1 SRP Stream Rank value. This is an integer,
with the following interpretation placed on the value:

0: Emergency, high-rank stream,
1: Non-emergency stream."

REFERENCE "35.2.2.8.5b"

SYNTAX INTEGER {
 emergency(0),
 nonEmergency(1)
}

IEEE8021SrpStreamIdValue ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1x:1x:1x:1x:1x:1x:1x:1x"

STATUS current

DESCRIPTION

"Represents an SRP Stream ID, which is often defined
as a MAC Address followed by a unique 16-bit ID."

SYNTAX OCTET STRING (SIZE (8))

IEEE8021SrpReservationDirectionValue ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"An 802.1 SRP Stream Reservation Direction value. This is
an integer, with the following interpretation placed on

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the value:

```

0: Talker registrations,
1: Listener registrations."
REFERENCE      "35.2.1.2"
SYNTAX         INTEGER {
                    talkerRegistrations(0),
                    listenerRegistrations(1)
                }

```

IEEE8021SrpReservationDeclarationTypeValue ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"An 802.1 SRP Stream Reservation Declaration Type value.
 This is an integer, with the following interpretation
 placed on the value:

```

0: Talker Advertise,
1: Talker Failed,
2: Listener Asking Failed,
3: Listener Ready,
4: Listener Ready Failed."
REFERENCE      "35.2.1.3"
SYNTAX         INTEGER {
                    talkerAdvertise(0),
                    talkerFailed(1),
                    listenerAskingFailed(2),
                    listenerReady(3),
                    listenerReadyFailed(4)
                }

```

IEEE8021SrpReservationFailureCodeValue ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"An 802.1 SRP Stream Reservation Failure Code value.
 This is an integer, with the following interpretation
 placed on the value:

```

0: No failure,
1: Insufficient bandwidth,
2: Insufficient Bridge resources,
3: Insufficient bandwidth for Traffic Class,
4: StreamID in use by another Talker,
5: Stream destination address already in use,
6: Stream pre-empted by higher rank,
7: Reported latency has changed,
8: Egress port is not AVBCapable,
9: Use a different destination_address,
10: Out of MSRP resources,
11: Out of MMRP resources,
12: Cannot store destination_address,
13: Requested priority is not an SR Class priority,
14: MaxFrameSize is too large for media,
15: maxFanInPorts limit has been reached,
16: Changes in FirstValue for a registered StreamID,
17: VLAN is blocked on this egress port (Registration Forbidden),

```

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18: VLAN tagging is disabled on this egress port (untagged set),
19: SR class priority mismatch."
REFERENCE "35.2.2.8.7"
SYNTAX INTEGER {
 noFailure(0),
 insufficientBandwidth(1),
 insufficientResources(2),
 insufficientTrafficClassBandwidth(3),
 streamIDInUse(4),
 streamDestinationAddressInUse(5),
 streamPreemptedByHigherRank(6),
 latencyHasChanged(7),
 egressPortNotAVBCapable(8),
 useDifferentDestinationAddress(9),
 outOfMSRPResources(10),
 outOfMMRPResources(11),
 cannotStoreDestinationAddress(12),
 priorityIsNoAnSRClass(13),
 maxFrameSizeTooLarge(14),
 maxFanInPortsLimitReached(15),
 firstValueChangedForStreamID(16),
 vlanBlockedOnEgress(17),
 vlanTaggingDisabledOnEgress(18),
 srClassPriorityMismatch(19)
}

```
-- =====
-- subtrees in the SRP MIB
-- =====

ieee8021SrpNotifications
    OBJECT IDENTIFIER ::= { ieee8021SrpMib 0 }

ieee8021SrpObjects
    OBJECT IDENTIFIER ::= { ieee8021SrpMib 1 }

ieee8021SrpConformance
    OBJECT IDENTIFIER ::= { ieee8021SrpMib 2 }

ieee8021SrpConfiguration
    OBJECT IDENTIFIER ::= { ieee8021SrpObjects 1 }

ieee8021SrpLatency
    OBJECT IDENTIFIER ::= { ieee8021SrpObjects 2 }

ieee8021SrpStreams
    OBJECT IDENTIFIER ::= { ieee8021SrpObjects 3 }

ieee8021SrpReservations
    OBJECT IDENTIFIER ::= { ieee8021SrpObjects 4 }

-- =====
-- The ieee8021SrpConfiguration subtree
-- This subtree defines the objects necessary for the
-- operational management of SRP.
-- =====
```

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```

ieee8021SrpBridgeBaseTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF Ieee8021SrpBridgeBaseEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table for SRP main control and status information.
        All writeable objects in this table must be persistent
        over power up restart/reboot. These objects augment
        the ieee8021BridgeBasePortTable."
    ::= { ieee8021SrpConfiguration 1 }

ieee8021SrpBridgeBaseEntry OBJECT-TYPE
    SYNTAX      Ieee8021SrpBridgeBaseEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "SRP control and status information for a Bridge."
    AUGMENTS { ieee8021BridgeBaseEntry }
    ::= { ieee8021SrpBridgeBaseTable 1 }

Ieee8021SrpBridgeBaseEntry ::=
    SEQUENCE {
        ieee8021SrpBridgeBaseMsrpEnabledStatus
            TruthValue,
        ieee8021SrpBridgeBaseMsrpTalkerPruning
            TruthValue,
        ieee8021SrpBridgeBaseMsrpMaxFanInPorts
            Unsigned32,
        ieee8021SrpBridgeBaseMsrpLatencyMaxFrameSize
            Unsigned32
    }

ieee8021SrpBridgeBaseMsrpEnabledStatus OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The administrative status requested by management for
        MSRP. The value true(1) indicates that MSRP should
        be enabled on this device, in all VLANs, on all ports
        for which it has not been specifically disabled. When
        false(2), MSRP is disabled, in all VLANs and on all
        ports, and all MSRP frames will be forwarded
        transparently. This objects affects both Applicant and
        Registrar state machines. A transition from false(2)
        to true(1) will cause a reset of all MSRP state
        machines on all ports.

        This object may be modified while the corresponding
        instance of ieee8021BridgeBaseRowStatus is active(1).

        The value of this object MUST be retained across
        reinitializations of the management system."
    REFERENCE   "35.2.1.4d"
    DEFVAL      { true }
    ::= { ieee8021SrpBridgeBaseEntry 1 }

ieee8021SrpBridgeBaseMsrpTalkerPruning OBJECT-TYPE

```

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SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The value of the talkerPruning parameter which controls the propagation of Talker declarations. The value true(1) indicates that Talker attributes are only declared on ports that have the Stream destination address registered in the MMRP MAC Address Registration Entries. When false(2), Talker attribute are declared on all egress ports in the active topology.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.22.1, 35.2.1.4b, 35.2.4.3.1"

DEFVAL { false }

::= { ieee8021SrpBridgeBaseEntry 2 }

ieee8021SrpBridgeBaseMsrpMaxFanInPorts OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The value of the msrpMaxFanInPorts parameter which limits the total number of ports on a Bridge that are allowed to establish reservations for inbound Streams. A value of zero (0) indicates no fan-in limit is being specified and calculations involving fan-in will only be limited by the number of MSRP enabled ports.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.22.1, 35.2.1.4f"

DEFVAL { 0 }

::= { ieee8021SrpBridgeBaseEntry 3 }

ieee8021SrpBridgeBaseMsrpLatencyMaxFrameSize OBJECT-TYPE

SYNTAX Unsigned32
MAX-ACCESS read-create
STATUS current

DESCRIPTION

"The value of msrpLatencyMaxFrameSize parameter which is used in the calculation of the maximum latency through a Bridge. The maximum size is defined to be 2000 octets by default, but may be set to a smaller or larger value dependent on the particular Bridge configuration. This parameter does not imply any type of policing of frame size, it is only used in the latency calculations.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "12.22.1, 35.2.1.4g"

DEFVAL { 2000 }

::= { ieee8021SrpBridgeBaseEntry 4 }

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ieee8021SrpBridgePortTable OBJECT-TYPE

SYNTAX SEQUENCE OF Ieee8021SrpBridgePortEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table for SRP control and status information about every Bridge Port. Augments the ieee8021BridgeBasePortTable."

::= { ieee8021SrpConfiguration 2 }

ieee8021SrpBridgePortEntry OBJECT-TYPE

SYNTAX Ieee8021SrpBridgePortEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"SRP control and status information for a Bridge Port."

AUGMENTS { ieee8021BridgeBasePortEntry }

::= { ieee8021SrpBridgePortTable 1 }

Ieee8021SrpBridgePortEntry ::=

SEQUENCE {

ieee8021SrpBridgePortMsrpEnabledStatus

TruthValue,

ieee8021SrpBridgePortMsrpFailedRegistrations

Counter64,

ieee8021SrpBridgePortMsrpLastPduOrigin

MacAddress,

ieee8021SrpBridgePortSrPvid

IEEE8021VlanIndex

}

ieee8021SrpBridgePortMsrpEnabledStatus OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The administrative state of MSRP operation on this port. The value true(1) indicates that MSRP is enabled on this port in all VLANs as long as ieee8021BridgeMsrpEnabledStatus is also true(1). A value of false(2) indicates that MSRP is disabled on this port in all VLANs: any MSRP frames received will be silently discarded, and no MSRP registrations will be propagated from other ports. Setting this to a value of true(1) will be stored by the agent but will only take effect on the MSRP protocol operation if

ieee8021BridgeMsrpEnabledStatus

also indicates the value true(1). This object affects all MSRP Applicant and Registrar state machines on this port. A transition from false(2) to true(1) will cause a reset of all MSRP state machines on this port.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "35.2.1.4e"

DEFVAL { true }

::= { ieee8021SrpBridgePortEntry 1 }

ieee8021SrpBridgePortMsrpFailedRegistrations OBJECT-TYPE

SYNTAX Counter64

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UNITS "failed MSRP registrations"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of failed MSRP registrations, for any reason, in all VLANs, on this port.

Discontinuities in the value of the counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime object of the associated interface (if any)."

REFERENCE "10.7.12.1"

::= { ieee8021SrpBridgePortEntry 2 }

ieee8021SrpBridgePortMsrpLastPduOrigin OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Source MAC Address of the last MSRP message received on this port."

REFERENCE "10.7.12.2"

::= { ieee8021SrpBridgePortEntry 3 }

ieee8021SrpBridgePortSrPvid OBJECT-TYPE

SYNTAX IEEE8021VlanIndex

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The default VLAN ID that Streams are assigned to. Talkers learn this VID from the SRP Domain attribute and tag Streams accordingly.

The value of this object MUST be retained across reinitializations of the management system."

REFERENCE "35.2.2.8.3b"

DEFVAL { 2 }

::= { ieee8021SrpBridgePortEntry 4 }

-- =====
-- The ieee8021SrpLatency subtree
-- This subtree defines the objects necessary for retrieving
-- the latency of the various traffic classes on a port.
-- =====

-- =====
-- the ieee8021SrpLatencyTable
-- =====

ieee8021SrpLatencyTable OBJECT-TYPE

SYNTAX SEQUENCE OF Ieee8021SrpLatencyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing a set of latency measurement parameters for each traffic class."

REFERENCE "35.2.2.8.6"

::= { ieee8021SrpLatency 1 }

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```

ieee8021SrpLatencyEntry OBJECT-TYPE
    SYNTAX      Ieee8021SrpLatencyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A list of objects containing latency information
        for each traffic class. Rows in the table are
        automatically created for ports that are not an
        SRP domain boundary port (i.e. SRPdomainBoundaryPort
        is FALSE). See 35.1.4, 8.8.2, 12.22.3."
    INDEX { ieee8021BridgeBaseComponentId,
            ieee8021BridgeBasePort,
            ieee8021SrpTrafficClass }
    ::= { ieee8021SrpLatencyTable 1 }

Ieee8021SrpLatencyEntry ::=
    SEQUENCE {
        ieee8021SrpTrafficClass
            IEEE8021FqtssTrafficClassValue,
        ieee8021SrpPortTcLatency
            Unsigned32
    }

ieee8021SrpTrafficClass OBJECT-TYPE
    SYNTAX      IEEE8021FqtssTrafficClassValue
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The traffic class number associated with the
        row of the table.

        Rows in the table are automatically created for
        ports that are not an SRP domain boundary port
        (i.e. SRPdomainBoundaryPort is FALSE)."
```

REFERENCE "35.1.4, 8.8.2, 12.22.3"

```

    ::= { ieee8021SrpLatencyEntry 1 }

ieee8021SrpPortTcLatency OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "nano-seconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of the portTcMaxLatency parameter for the
        traffic class. This value is expressed in
        nano-seconds."
    REFERENCE  "35.2.1.4, 35.2.2.8.6"
    ::= { ieee8021SrpLatencyEntry 2 }

-- =====
-- The ieee8021SrpStreams subtree
-- This subtree defines the objects necessary for retrieving
-- the characteristics of the various Streams currently registered.
-- =====
-- =====

```

```
-- the ieee8021SrpStreamTable
-- =====
ieee8021SrpStreamTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF Ieee8021SrpStreamEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table containing a set of characteristics
        for each registered Stream."
    REFERENCE   "35.2.2.8"
    ::= { ieee8021SrpStreams 1 }

ieee8021SrpStreamEntry OBJECT-TYPE
    SYNTAX      Ieee8021SrpStreamEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A list of objects containing characteristics
        for each registered Stream. Rows in the table are
        automatically created for Streams registered on any
        port of a Bridge."
    INDEX       { ieee8021SrpStreamId }
    ::= { ieee8021SrpStreamTable 1 }

Ieee8021SrpStreamEntry ::=
    SEQUENCE {
        ieee8021SrpStreamId
            IEEE8021SrpStreamIdValue,
        ieee8021SrpStreamDestinationAddress
            MacAddress,
        ieee8021SrpStreamVlanId
            IEEE8021VlanIndex,
        ieee8021SrpStreamTspecMaxFrameSize
            Unsigned32,
        ieee8021SrpStreamTspecMaxIntervalFrames
            Unsigned32,
        ieee8021SrpStreamDataFramePriority
            IEEE8021PriorityCodePoint,
        ieee8021SrpStreamRank
            IEEE8021SrpStreamRankValue
    }

ieee8021SrpStreamId OBJECT-TYPE
    SYNTAX      IEEE8021SrpStreamIdValue
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The Stream ID associated with the row of the table.

        Rows in the table are automatically created when
        Streams are registered via MSRP."
    REFERENCE   "35.2.2.8.2"
    ::= { ieee8021SrpStreamEntry 1 }

ieee8021SrpStreamDestinationAddress OBJECT-TYPE
    SYNTAX      MacAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
```


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"The MAC destination address for the Stream described
by this reservation."
REFERENCE "35.2.2.8.3a"
::= { ieee8021SrpStreamEntry 2}

ieee8021SrpStreamVlanId OBJECT-TYPE
SYNTAX IEEE8021VlanIndex
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The VLAN ID associated with the MSRP registration
for this Stream."
REFERENCE "35.2.2.8.3b"
::= { ieee8021SrpStreamEntry 3}

ieee8021SrpStreamTspecMaxFrameSize OBJECT-TYPE
SYNTAX Unsigned32 (0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The maximum size frame that will be sent by
a Talker for this Stream. This value is part
of the Traffic Specification for the Stream."
REFERENCE "35.2.2.8.4a"
::= { ieee8021SrpStreamEntry 4}

ieee8021SrpStreamTspecMaxIntervalFrames OBJECT-TYPE
SYNTAX Unsigned32 (0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The maximum number of frame that will be sent
during a class measurement interval (L.2). This
value is part of the Traffic Specification for
the Stream."
REFERENCE "35.2.2.8.4b, L.2"
::= { ieee8021SrpStreamEntry 5}

ieee8021SrpStreamDataFramePriority OBJECT-TYPE
SYNTAX IEEE8021PriorityCodePoint
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The Priority Code Point (PCP) value that the
referenced Stream will be tagged with. This value
is used to distinguish Class A and Class B traffic."
REFERENCE "35.2.2.8.5a"
::= { ieee8021SrpStreamEntry 6}

ieee8021SrpStreamRank OBJECT-TYPE
SYNTAX IEEE8021SrpStreamRankValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"SRP supports emergency and non-emergency.
Emergency traffic will interrupt non-emergency
traffic if there is insufficient bandwidth or
resources available for the emergency traffic."

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REFERENCE "35.2.2.8.5b"

::= { ieee8021SrpStreamEntry 7 }

-- =====
-- The ieee8021SrpReservations subtree
-- This subtree defines the objects necessary for retrieving
-- the Stream attribute registrations on each port of a Bridge.
-- =====

-- =====
-- the ieee8021SrpReservationsTable
-- =====

ieee8021SrpReservationsTable OBJECT-TYPE

SYNTAX SEQUENCE OF Ieee8021SrpReservationsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table containing Stream attribute registrations per port."

REFERENCE "35.2.4"

::= { ieee8021SrpReservations 1 }

ieee8021SrpReservationsEntry OBJECT-TYPE

SYNTAX Ieee8021SrpReservationsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of objects containing Stream attribute registrations per port. Rows in the table are automatically created for Streams registered on any port of a Bridge."

INDEX { ieee8021SrpReservationStreamId,
ieee8021SrpReservationDirection,
ieee8021BridgeBaseComponentId,
ieee8021BridgeBasePort }

::= { ieee8021SrpReservationsTable 1 }

Ieee8021SrpReservationsEntry ::=

SEQUENCE {

ieee8021SrpReservationStreamId

IEEE8021SrpStreamIdValue,

ieee8021SrpReservationDirection

IEEE8021SrpReservationDirectionValue,

ieee8021SrpReservationDeclarationType

IEEE8021SrpReservationDeclarationTypeValue,

ieee8021SrpReservationAccumulatedLatency

Unsigned32,

ieee8021SrpReservationFailureSystemId

OCTET STRING,

ieee8021SrpReservationFailureCode

IEEE8021SrpReservationFailureCodeValue,

ieee8021SrpReservationDroppedStreamFrames

Counter64,

ieee8021SrpReservationStreamAge

Unsigned32

}

ieee8021SrpReservationStreamId OBJECT-TYPE

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SYNTAX IEEE8021SrpStreamIdValue
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The Stream ID associated with the row of the table.

Rows in the table are automatically created when
Streams are registered via MSRP."
REFERENCE "35.2.2.8.2"
::= { ieee8021SrpReservationsEntry 1 }

ieee8021SrpReservationDirection OBJECT-TYPE
SYNTAX IEEE8021SrpReservationDirectionValue
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The source of this Stream registration, either
Talker or Listener."
REFERENCE "35.2.1.2"
::= { ieee8021SrpReservationsEntry 2 }

ieee8021SrpReservationDeclarationType OBJECT-TYPE
SYNTAX IEEE8021SrpReservationDeclarationTypeValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of Talker or Listener registration."
REFERENCE "35.2.1.3"
::= { ieee8021SrpReservationsEntry 3 }

ieee8021SrpReservationAccumulatedLatency OBJECT-TYPE
SYNTAX Unsigned32
UNITS "nano-seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The Accumulated Latency associated with the current
registration.

For Talker registrations this represents the accumulated
latency from the Talker to the ingress port of this
Bridge.

For Listener registrations this represents the accumulated
latency to the ingress port of the neighbor Bridge or
end stations. This include the latency of the media
attached to this egress port."
REFERENCE "35.2.2.8.6"
::= { ieee8021SrpReservationsEntry 4 }

ieee8021SrpReservationFailureSystemId OBJECT-TYPE
SYNTAX OCTET STRING(SIZE(8))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The first system that changes a Talker Advertise to a
Talker Failed registration will report its System
Identification in this field. That single System

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Identification is then propagated from system to system."

REFERENCE "35.2.2.8.7a"

::= { ieee8021SrpReservationsEntry 5 }

ieee8021SrpReservationFailureCode OBJECT-TYPE

SYNTAX IEEE8021SrpReservationFailureCodeValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The first Bridge that changes a Talker Advertise to a Talker Failed registration will report the Failure Code in this field. That single Failure Code is then propagated from Bridge to Bridge."

REFERENCE "35.2.2.8.7b"

::= { ieee8021SrpReservationsEntry 6 }

ieee8021SrpReservationDroppedStreamFrames OBJECT-TYPE

SYNTAX Counter64

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of data stream frames that have been dropped for whatever reason. These are not MSRP frames, but the stream data frames that are carried by the MSRP Reservation."

Discontinuities in the value of the counter can occur at re-initialization of the management system, and at other times as indicated by the value of ifCounterDiscontinuityTime object of the associated interface (if any)."

REFERENCE "35.2.5.1"

::= { ieee8021SrpReservationsEntry 7 }

ieee8021SrpReservationStreamAge OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds since the reservation was established on this port."

REFERENCE "35.2.1.4c"

::= { ieee8021SrpReservationsEntry 8 }

```
-- =====
-- IEEE8021 SRP MIB - Conformance Information
-- =====
```

ieee8021SrpCompliances

OBJECT IDENTIFIER ::= { ieee8021SrpConformance 1 }

ieee8021SrpGroups

OBJECT IDENTIFIER ::= { ieee8021SrpConformance 2 }

```
-- =====
-- units of conformance
-- =====
```

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```
-- =====
-- the ieee8021SrpConfiguration group
-- =====

ieee8021SrpConfigurationGroup OBJECT-GROUP
    OBJECTS {
        ieee8021SrpBridgeBaseMsrpEnabledStatus,
        ieee8021SrpBridgeBaseMsrpTalkerPruning,
        ieee8021SrpBridgeBaseMsrpMaxFanInPorts,
        ieee8021SrpBridgeBaseMsrpLatencyMaxFrameSize,
        ieee8021SrpBridgePortMsrpEnabledStatus,
        ieee8021SrpBridgePortMsrpFailedRegistrations,
        ieee8021SrpBridgePortMsrpLastPduOrigin,
        ieee8021SrpBridgePortSrPvid
    }
    STATUS      current
    DESCRIPTION
        "Objects that define configuration of SRP."
    ::= { ieee8021SrpGroups 1 }

-- =====
-- the ieee8021SrpLatency group
-- =====

ieee8021SrpLatencyGroup OBJECT-GROUP
    OBJECTS {
        ieee8021SrpPortTcLatency
    }
    STATUS      current
    DESCRIPTION
        "Objects that define latency for SRP."
    ::= { ieee8021SrpGroups 2 }

-- =====
-- the ieee8021SrpStreams group
-- =====

ieee8021SrpStreamsGroup OBJECT-GROUP
    OBJECTS {
        -- ieee8021SrpStreamId,
        ieee8021SrpStreamDestinationAddress,
        ieee8021SrpStreamVlanId,
        ieee8021SrpStreamTspecMaxFrameSize,
        ieee8021SrpStreamTspecMaxIntervalFrames,
        ieee8021SrpStreamDataFramePriority,
        ieee8021SrpStreamRank
    }
    STATUS      current
    DESCRIPTION
        "Objects that define Streams for SRP."
    ::= { ieee8021SrpGroups 3 }

-- =====
-- the ieee8021SrpReservations group
-- =====

ieee8021SrpReservationsGroup OBJECT-GROUP
    OBJECTS {
```

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```
-- ieee8021SrpReservationStreamId,
-- ieee8021SrpReservationDirection,
ieee8021SrpReservationDeclarationType,
ieee8021SrpReservationAccumulatedLatency,
ieee8021SrpReservationFailureSystemId,
ieee8021SrpReservationFailureCode,
ieee8021SrpReservationDroppedStreamFrames,
ieee8021SrpReservationStreamAge
}
STATUS          current
DESCRIPTION
    "Objects that define Stream Reservations for SRP."
::= { ieee8021SrpGroups 4 }

-- =====
-- compliance statements
-- =====

ieee8021SrpCompliance MODULE-COMPLIANCE
    STATUS          current
    DESCRIPTION
        "The compliance statement for devices supporting
        Stream Reservation Protocol.

        Support of the objects defined in the IEEE8021-SRP MIB
        also requires support of the IEEE8021-BRIDGE-MIB; the
        provisions of 17.3.2 apply to implementations claiming
        support of the IEEE8021-SRP MIB."

    MODULE -- this module
        MANDATORY-GROUPS {
            ieee8021SrpConfigurationGroup,
            ieee8021SrpLatencyGroup,
            ieee8021SrpStreamsGroup,
            ieee8021SrpReservationsGroup
        }

    ::= { ieee8021SrpCompliances 1 }

END
```

25. Support of the MAC Service by PBBNs

25.2 Customer service interface

Change the paragraph immediately before the NOTE as follows:

In all cases, segregation of different service instances is achieved at an interface wholly under the control of the backbone provider, and by verification of customer provided parameters that provide service instance selection. Stronger authentication and authorization of the attached customer systems ~~may~~can be achieved by use of IEEE Std 802.1X.

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32. Congestion notification protocol

32.14 RP procedures

32.14.4 ReceiveCnm

Change list item e) as follows:

- e) If the selected RP rate control state machine's rpEnabled variable is FALSE and is not held FALSE because rpgEnable (32.11.1) has the value FALSE, and the CNM's cnmQOffset field (33.4.5) is ~~negative~~ positive, then rpEnabled is reset to TRUE, the variable rpppCreatedRps (32.10.2) is incremented.

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33. Encoding of congestion notification PDUs

33.4 Congestion Notification Message PDU format

33.4.5 cnmQOffset

Change the first line as follows:

The two's-complement signed integer value of ~~the transmitting CP's $(-1 \times \text{cpQOffset})$~~ (32.8.7) of the transmitting CP in units of 64 octets.

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35. Stream Reservation Protocol (SRP)

35.1 Multiple Stream Registration Protocol (MSRP)

35.1.2 Behavior of end stations

35.1.2.1 Talkers

Insert the following paragraph immediately following list item b):

A Talker Advertise shall not be declared if there are not sufficient bandwidth and resources available. If a Talker Advertise is being declared and the required bandwidth or resources become unavailable the Talker Advertise shall be withdrawn and a Talker Failed may be declared. A Talker is allowed to transition directly from a Talker Advertise to a Talker Failed without waiting for the Talker Advertise to be deregistered from the network (see 35.2.6).

35.2 Definition of the MSRP application

35.2.2 Definition of MRP elements

35.2.2.8 MSRP FirstValue definitions (stream reservations)

35.2.2.8.1 Structure definition

Change Figure 35-2 as follows:

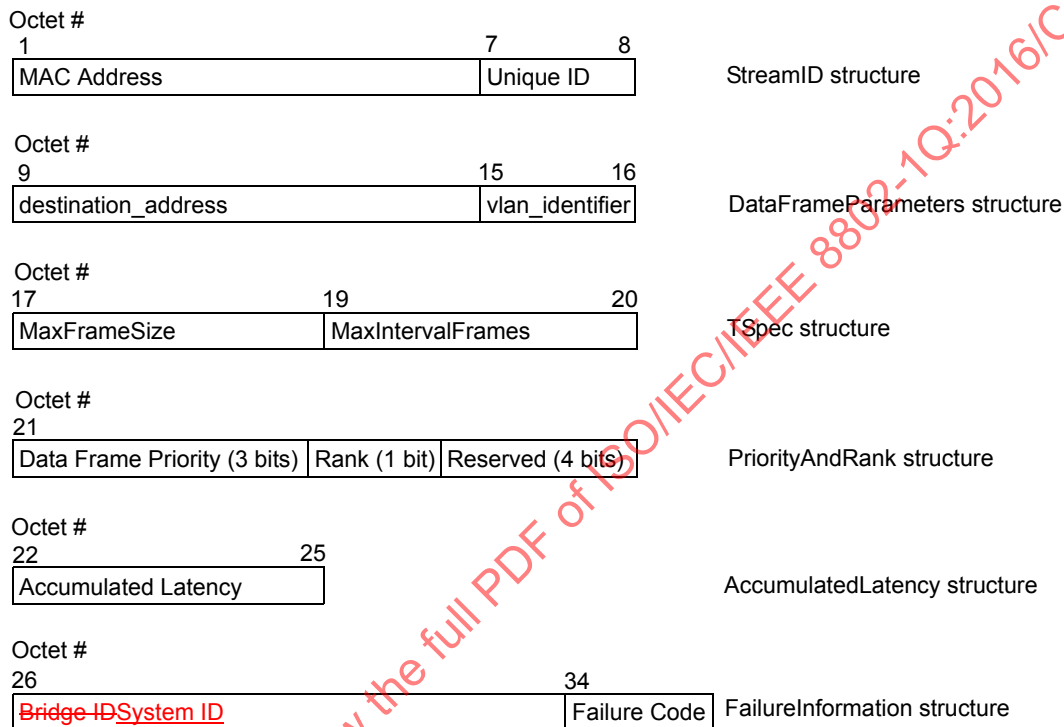


Figure 35-2—Format of the components of the reservation FirstValue fields

35.2.2.8.7 FailureInformation

Change the text of 35.2.2.8.7 and Table 35-6, and insert a NOTE, as follows:

At the point when a Talker Advertise Declaration is transformed into a Talker Failed Declaration, the Bridge system making the transformation adds information that indicates, to the Listeners registering the Talker Failed Declaration, the cause of the failure, and the identity of the Bridge system at which the failure occurred. The subcomponents of the FailureInformation include

- The system identifier, which is the The Bridge ID-Identifier (13.26.2) of the Bridge, or the 48-bit MAC Address of the end station's port extended to 64-bits by prepending 16 bits of zero, that changed the Declaration Type from Advertise to Failed.
- The Reservation Failure Code, which is represented by a single octet containing the value shown in Table 35-6.

NOTE—Bridge Identifiers are normally constructed from MAC Addresses that are unique in the bridged LAN but are not required to be constructed in that manner; therefore, there is a possibility of an end station MAC Address colliding with the Bridge ID.

Table 35-6—Reservation Failure Codes

Failure Code	Description of cause
1	Insufficient bandwidth
2	Insufficient Bridgesystem resources
3	Insufficient bandwidth for traffic class.
4	StreamID in use by another Talker
5	Stream destination_address already in use
6	Stream preempted by higher rank
7	Reported latency has changed
8	Egress port is not AVB capable ^a
9	Use a different destination_address (i.e., MAC DA hash table full)
10	Out of MSRP resources
11	Out of MMRP resources
12	Cannot store destination_address (i.e., Bridgesystem is out of MAC DA resources)
13	Requested priority is not an SR Class (3.231) priority
14	MaxFrameSize (35.2.2.8.4(a)) is too large for media
15	msrpMaxFanInPorts (35.2.1.4(f)) limit has been reached
16	Changes in FirstValue for a registered StreamID.
17	VLAN is blocked on this egress port (Registration Forbidden) ^b
18	VLAN tagging is disabled on this egress port (untagged set)
19	SR class priority mismatch

^aA device could choose to use the asCapable variable from IEEE Std 802.1AS™-2011 [B7], 10.2.4.1, to help determine if its neighboring device is AVB capable. If the asCapable variable is FALSE for a particular port, then the neighboring device is not a time-aware system and therefore not AVB capable.

^bThis Failure Code is never declared in a Talker Failed message since Talker attributes are not propagated on egress ports that have the associated VLAN blocked. The **Bridgesystem** can still be queried by other means to learn why the Talker attribute was not declared.

Annex A

(normative)

PICS proforma—Bridge implementations²

A.37 Shortest Path Bridging (SPB)

Change row SPB-2 as follows:

SPB-2	Encode, decode, and validate <u>IS-IS Hello PDUs</u> or SPT BPDUs for the Agreement Protocol (<u>AP</u>) and support Agreement Protocol <u>AP</u> logic in IS-IS?	SPB:M	5.4.5, 28	Yes ☐	No ☐
-------	--	-------	-----------	------------------------------	-----------------------------

²Copyright release for PICS proformas: Users of this standard may freely reproduce the PICS proforma in this annex so that it can be used for its intended purpose and may further publish the completed PICS.

Annex B

(normative)

PICS proforma—End station implementations

B.10 Stream Reservation Protocol (SRP)

Change rows SRP-11 and SRP-12 as follows:

SRP-11	Does the implementation update the Failure Information Bridge ID end station MAC address and Code in the event of insufficient bandwidth or resources through a Bridge when a Talker Failed is declared?	M	35.2.2.8.7	Yes [☐]	
SRP-12	Does the implementation create a Talker Failed in the event of insufficient bandwidth or resources through a Bridge ?	M <u>O</u>	35.2.4.3, 35.40, 35.1.2.1	Yes [☐]	No [☐]

Annex D

(normative)

IEEE 802.1 Organizationally Specific TLVs

D.1 Requirements of the IEEE 802.1 Organizationally Specific TLV sets

Change row 07 of Table D-1 as follows:

Table D-1— IEEE 802.1 Organizationally Specific TLVs ~~specified in this standard~~

IEEE 802.1 subtype	TLV name	TLV set name	TLV reference	Feature clause reference
07	Link Aggregation	basicSet	D.2.7 Annex F of IEEE Std 802.1AX-2014	D.2.7, Annex F of IEEE Std 802.1AX-20082014

D.2 Organizationally Specific TLV definitions

D.2.7 Link Aggregation TLV

Delete D2.7, D2.7.1, D2.7.2, D2.7.3, and Table D-3, re-numbering subsequent tables and sub-clauses accordingly.

D.3 IEEE 802.1 Organizationally Specific TLV management

D.3.2 IEEE 802.1 managed objects—TLV variables

D.3.2.7 Link Aggregation TLV managed objects

Change the text as follows:

- aggregation status:** The capability and current aggregation status of the link (see ~~D.2.7.1~~Annex F of IEEE Std 802.1AX-2014).
- aggregated port ID:** The aggregated port identifier (see ~~D.2.7.2~~Annex F of IEEE Std 802.1AX-2014).

D.4 PICS proforma for IEEE 802.1 Organizationally Specific TLV extensions

D.4.3 Major capabilities and options

Change the following rows of the table, as follows:

dot1basictlv	Is each TLV in the IEEE 802.1 Organizationally Specific TLV basicSet implemented?			
	Port VLAN ID TLV	dot1basicSet:M	D.2.1	Yes []
	Port And Protocol VLAN ID TLV	dot1basicSet:M	D.2.2	Yes []
	VLAN Name TLV	dot1basicSet:M	D.2.3	Yes []
	Protocol Identity TLV	dot1basicSet:M	D.2.4	Yes []
	VID Usage Digest TLV	dot1basicSet:M	D.2.5	Yes []
	Management VID TLV	dot1basicSet:M	D.2.6	Yes []
	Link Aggregation TLV	dot1basicSet:M	D.2.7 Annex F of IEEE Std 802.1AX-2014	Yes []
dot1cntlv	Is each TLV in the IEEE 802.1 Organizationally Specific TLV lagSet implemented?			
	Link Aggregation TLV	dot1chSet:M	D.2.7 Annex F of IEEE Std 802.1AX-2014	Yes []
equivstor	If the SNMP is not supported, is the provided storage and retrieval capability functionally equivalent with the indicated specifications of this clause for the operating mode being implemented?	M	D.2.1, D.2.2, D.2.3, D.2.4, and D.2.7 Annex F of IEEE Std 802.1AX-2014	Yes []

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D.5 IEEE 802.1/LLDP extension MIB

D.5.2 Structure of the IEEE 802.1/LLDP extension MIB

Change the following rows of Table D-12 (previously Table D-13) as follows:

Table D-12—IEEE 802.1/LLDP extension MIB object cross reference

MIB table	MIB object	LLDP reference
lldpV2Xdot1LocLinkAggTable		D.2.7 Annex F of IEEE Std 802.1AX-2014
	lldpV2LocPortIfIndex	(Table index)
	lldpV2Xdot1LocLinkAggStatus	aggregation status, D.2.7.1 Annex F of IEEE Std 802.1AX-2014
	lldpV2Xdot1LocLinkAggPortId	aggregation port ID, D.2.7.2 Annex F of IEEE Std 802.1AX-2014
lldpV2Xdot1RemLinkAggTable		D.2.7 Annex F of IEEE Std 802.1AX-2014
	lldpV2RemTimeMark	(Table index)
	lldpV2RemLocalIfIndex	(Table index)
	lldpV2RemLocalDestMACAddress	(Table index)
	lldpV2RemIndex	(Table index)
	lldpV2Xdot1RemLinkAggStatus	aggregation status, D.2.7.1 Annex F of IEEE Std 802.1AX-2014
	lldpV2Xdot1RemLinkAggPortId	aggregation port ID, D.2.7.2 Annex F of IEEE Std 802.1AX-2014

D.5.5 IEEE 802.1 LLDP extension MIB module—version 2

Replace the text of D.5.5 with the following:

In the following MIB definition, should any discrepancy between the DESCRIPTION text and the corresponding definition in D.2.1 through D.5 occur, the definition in D.2.1 through D.5 shall take precedence.

LLDP-EXT-DOT1-V2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,
 OBJECT-TYPE,
 Unsigned32
 FROM SNMPv2-SMI
 TruthValue,
 TEXTUAL-CONVENTION
 FROM SNMPv2-TC
 SnmpAdminString
 FROM SNMP-FRAMEWORK-MIB
 MODULE-COMPLIANCE,
 OBJECT-GROUP
 FROM SNMPv2-CONF
 ifGeneralInformationGroup
 FROM IF-MIB
 lldpV2Extensions,
 lldpV2LocPortIfIndex,
 lldpV2RemTimeMark,
 lldpV2RemLocalIfIndex,
 lldpV2RemLocalDestMACAddress,
 lldpV2RemIndex,
 lldpV2PortConfigEntry
 FROM LLDP-V2-MIB
 VlanId
 FROM Q-BRIDGE-MIB
 IEEE8021PriorityValue
 FROM IEEE8021-TC-MIB;

lldpV2Xdot1MIB MODULE-IDENTITY

LAST-UPDATED "201512020000Z" -- December 2, 2015

ORGANIZATION "IEEE 802.1 Working Group"

CONTACT-INFO

"WG-URL: <http://grouper.ieee.org/groups/802/1/index.html>

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IEEE Standards Association

445 Hoes Lane

Piscataway

NJ 08854

USA

E-mail: STDS-802-1-L@LISTSERV.IEEE.ORG"

DESCRIPTION

"The LLDP Management Information Base extension module for
 IEEE 802.1 organizationally defined discovery information.

In order to ensure the uniqueness of the LLDP-V2-MIB,

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lldpV2Xdot1MIB is branched from lldpV2Extensions using an Organizationally Unique Identifier (OUI) value as the node. An OUI is a 24 bit globally unique number assigned by the IEEE Registration Authority - see:

<http://standards.ieee.org/develop/regauth/oui/index.html>

Unless otherwise indicated, the references in this MIB module are to IEEE Std 802.1Q-2014.

Copyright (C) IEEE (2014). This version of this MIB module is published as D.5.5 of IEEE Std 802.1Q; see the standard itself for full legal notices."

REVISION "201512020000Z" -- December 2, 2015

DESCRIPTION

"Published as part of IEEE Std 802.1Q 2014 Cor-1.
Updated as a result of maintenance items #0132 and #0152"

REVISION "201412150000Z" -- December 15, 2014

DESCRIPTION

"Published as part of IEEE Std 802.1Q 2014 revision.
Cross references updated and corrected.
New tables lldpV2Xdot1RemVidUsageDigestV2Table and lldpV2Xdot1RemManVidV2Table inserted; old versions deprecated. New versions add an index for lldpV2RemIndex. "

REVISION "201103250000Z" -- March 25, 2011

DESCRIPTION

"Published as part of IEEE Std 802.1Qaz-2011. Adds the DCBX objects to the MIB module"

REVISION "201103230000Z" -- March 23, 2011

DESCRIPTION

"Published as part of IEEE Std 802.1Q-2011 revision.
This revision contains changes associated with relocating the extension MIB from IEEE Std 802.1AB to IEEE Std 802.1Q, minor tweaks to the text of the DESCRIPTION statement above to fix references to IEEE Std 802.1Q, updating of references to refer to Annex D, and addition of object definitions for Congestion Notification TLVs and corresponding compliance statements."

REVISION "200906080000Z" -- June 08, 2009

DESCRIPTION

"Published as part of IEEE Std 802.1AB-2009 revision.
This revision incorporated changes to the MIB to support the use of LLDP with multiple destination MAC addresses, and to import the Link Aggregation TLV from the 802.3 extension MIB"

-- OUI for IEEE 802.1 is 32962 (00-80-C2)

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```

::= { lldpV2Extensions 32962 }

-----
-----
--
-- Organizational Defined Information Extension - IEEE 802.1
-- Definitions to support the basicSet TLV set (Table D-1)
--
-----
-----

lldpV2Xdot1Objects      OBJECT IDENTIFIER ::= { lldpV2Xdot1MIB 1 }

-- LLDP IEEE 802.1 extension MIB groups
lldpV2Xdot1Config      OBJECT IDENTIFIER ::= { lldpV2Xdot1Objects 1 }
lldpV2Xdot1LocalData   OBJECT IDENTIFIER ::= { lldpV2Xdot1Objects 2 }
lldpV2Xdot1RemoteData  OBJECT IDENTIFIER ::= { lldpV2Xdot1Objects 3 }

-----
-- Textual Convention definitions
-----

LldpV2XLinkAggStatusMap ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        "This TC describes the link aggregation status.

        The bit 'aggCapable(0)' indicates the link is capable of being
        aggregated if 1, not capable if 0.

        The bit 'aggEnabled(1)' indicates the link is currently in
        an aggregation if 1, not in an aggregation if 0.

        The bits 'portTypeLS(1)' and portTypeMS(2)' form the LS
        and MS bits of a Port Type value respectively:
        00 = no port type specified
        01 = transmitted from Aggregation Port
        10 = transmitted from Aggregator
        11 = transmitted from an Aggregator with a single
            Aggregation Port.

        The remaining bits are reserved for future standardization."
    SYNTAX      BITS {
        aggCapable(0),
        aggEnabled(1),
        portTypeLS(2),
        portTypeMS(3)
    }

-----
-- IEEE 802.1 - Configuration for the basicSet TLV set
-----
--
-- lldpV2Xdot1ConfigPortVlanTable : configure the transmission of the
--                               Port VLAN-ID TLVs on set of ports.
--
--

lldpV2Xdot1ConfigPortVlanTable OBJECT-TYPE

```

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SYNTAX SEQUENCE OF LldpV2Xdot1ConfigPortVlanEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"A table that controls selection of LLDP Port VLAN-ID TLVs to be transmitted on individual ports."

::= { lldpV2Xdot1Config 1 }

lldpV2Xdot1ConfigPortVlanEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1ConfigPortVlanEntry
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 lldpV2PortConfigEntry of the LLDP-MIB, therefore it is only present along with the port configuration defined by the associated lldpV2PortConfigEntry entry.

Each active lldpConfigEntry is restored from non-volatile storage (along with the corresponding lldpV2PortConfigEntry) after a re-initialization of the management system."

AUGMENTS { lldpV2PortConfigEntry }

::= { lldpV2Xdot1ConfigPortVlanTable 1 }

LldpV2Xdot1ConfigPortVlanEntry ::= SEQUENCE {
 lldpV2Xdot1ConfigPortVlanTxEnable TruthValue
}

lldpV2Xdot1ConfigPortVlanTxEnable OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"The lldpV2Xdot1ConfigPortVlanTxEnable, 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."

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

REFERENCE

"9.1.2.1 of IEEE Std 802.1AB"

DEFVAL { false }

::= { lldpV2Xdot1ConfigPortVlanEntry 1 }

--

-- lldpV2Xdot1ConfigVlanNameTable : configure the transmission of the
-- VLAN name instances on set of ports.
--

lldpV2Xdot1ConfigVlanNameTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpV2Xdot1ConfigVlanNameEntry

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MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table that controls selection of LLDP VLAN name TLV instances to be transmitted on individual ports."

::= { lldpV2Xdot1Config 2 }

lldpV2Xdot1ConfigVlanNameEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1ConfigVlanNameEntry

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 is transmitted.

This configuration object augments the lldpV2LocVlanEntry, therefore it is only present along with the VLAN Name instance contained in the associated lldpV2LocVlanNameEntry entry.

Each active lldpV2Xdot1ConfigVlanNameEntry is restored from non-volatile storage (along with the corresponding lldpV2Xdot1LocVlanNameEntry) after a re-initialization of the management system."

AUGMENTS { lldpV2Xdot1LocVlanNameEntry }

::= { lldpV2Xdot1ConfigVlanNameTable 1 }

LldpV2Xdot1ConfigVlanNameEntry ::= SEQUENCE {
 lldpV2Xdot1ConfigVlanNameTxEnable TruthValue
}

lldpV2Xdot1ConfigVlanNameTxEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The boolean value that indicates whether the corresponding Local System VLAN name instance is transmitted on the port defined by the given lldpV2Xdot1LocVlanNameEntry.

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

REFERENCE

"9.1.2.1 of IEEE Std 802.1AB"

DEFVAL { false }

::= { lldpV2Xdot1ConfigVlanNameEntry 1 }

```
--
-- lldpV2Xdot1ConfigProtoVlanTable : configure the transmission of the
--                                protocol VLAN instances on set
--                                of ports.
--
```

lldpV2Xdot1ConfigProtoVlanTable OBJECT-TYPE

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SYNTAX SEQUENCE OF LldpV2Xdot1ConfigProtoVlanEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"The table that controls selection of LLDP Port And
Protocol VLAN ID TLV instances to be transmitted on
individual ports."

::= { lldpV2Xdot1Config 3 }

lldpV2Xdot1ConfigProtoVlanEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1ConfigProtoVlanEntry
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 VLAN instance is transmitted."

This configuration object augments the
lldpV2Xdot1LocVlanEntry, therefore it is only present along
with the Port and Protocol VLAN ID instance contained in
the associated lldpV2Xdot1LocVlanEntry entry.

Each active lldpV2Xdot1ConfigProtoVlanEntry is restored
from non-volatile storage (along with the corresponding
lldpV2Xdot1LocProtoVlanEntry) after a re-initialization of
the management system."

AUGMENTS { lldpV2Xdot1LocProtoVlanEntry }
 ::= { lldpV2Xdot1ConfigProtoVlanTable 1 }

LldpV2Xdot1ConfigProtoVlanEntry ::= SEQUENCE {
 lldpV2Xdot1ConfigProtoVlanTxEnable TruthValue
}

lldpV2Xdot1ConfigProtoVlanTxEnable OBJECT-TYPE

SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"The boolean value that indicates whether the corresponding
Local System Port and Protocol VLAN instance is
transmitted on the port defined by the given
lldpV2Xdot1LocProtoVlanEntry."

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

REFERENCE
 "9.1.2.1 of IEEE Std 802.1AB"
DEFVAL { false }
 ::= { lldpV2Xdot1ConfigProtoVlanEntry 1 }

--

-- lldpV2Xdot1ConfigProtocolTable : configure the transmission of the
-- protocol instances on set
-- of ports.
--

```

lldpV2Xdot1ConfigProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1ConfigProtocolEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The table that controls selection of LLDP Protocol
        TLV instances to be transmitted on individual ports."
    ::= { lldpV2Xdot1Config 4 }

lldpV2Xdot1ConfigProtocolEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1ConfigProtocolEntry
    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 is transmitted.

        This configuration object augments the
        lldpV2Xdot1LocProtoEntry, therefore it is only present
        along with the Protocol instance contained in the
        associated lldpV2Xdot1LocProtoEntry entry.

        Each active lldpV2Xdot1ConfigProtocolEntry is restored
        from non-volatile storage (along with the corresponding
        lldpV2Xdot1LocProtocolEntry) after a re-initialization of
        the management system."
    AUGMENTS { lldpV2Xdot1LocProtocolEntry }
    ::= { lldpV2Xdot1ConfigProtocolTable 1 }

LldpV2Xdot1ConfigProtocolEntry ::= SEQUENCE {
    lldpV2Xdot1ConfigProtocolTxEnable  TruthValue
}

lldpV2Xdot1ConfigProtocolTxEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The boolean value that indicates whether the corresponding
        Local System Protocol Identity instance is transmitted
        on the port defined by the given
        lldpV2Xdot1LocProtocolEntry.

        The value of this object is restored from non-volatile
        storage after a re-initialization of the management
        system."
    REFERENCE
        "9.1.2.1 of IEEE Std 802.1AB"
    DEFVAL { false }
    ::= { lldpV2Xdot1ConfigProtocolEntry 1 }

--
-- lldpV2Xdot1ConfigVidUsageDigestTable: configure the transmission
-- of the VID Usage Digest TLVs on set of ports.
--
lldpV2Xdot1ConfigVidUsageDigestTable OBJECT-TYPE

```


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```

SYNTAX SEQUENCE OF LldpV2Xdot1ConfigVidUsageDigestEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table that controls selection of LLDP VID Usage Digest
    TLVs to be transmitted on individual ports."
 ::= { lldpV2Xdot1Config 5 }

lldpV2Xdot1ConfigVidUsageDigestEntry OBJECT-TYPE
SYNTAX LldpV2Xdot1ConfigVidUsageDigestEntry
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 VID Usage Digest instance will be transmitted.
    This configuration object augments the
    lldpLocVidUsageDigestEntry, therefore it is only present
    along with the VID Usage Digest instance
    contained in the associated lldpV2Xdot1LocVidUsageDigestEntry
    entry. Each active lldpConfigVidUsageDigestEntry must be
    restored from non-volatile storage and re-created (along with
    the corresponding lldpV2Xdot1LocVidUsageDigestEntry) after
    a re-initialization of the management system."
AUGMENTS { lldpV2Xdot1LocVidUsageDigestEntry }
 ::= { lldpV2Xdot1ConfigVidUsageDigestTable 1 }

LldpV2Xdot1ConfigVidUsageDigestEntry ::= SEQUENCE {
    lldpV2Xdot1ConfigVidUsageDigestTxEnable TruthValue
}

lldpV2Xdot1ConfigVidUsageDigestTxEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The boolean value that indicates whether the corresponding
    Local System VID Usage Digest instance will be transmitted
    on the port defined by the given
    lldpV2Xdot1LocVidUsageDigestEntry. The value of this object
    must be restored from non-volatile storage after a
    reinitialization of the management system."
REFERENCE
    "9.1.2.1 of IEEE Std 802.1AB"
DEFVAL { false }
 ::= { lldpV2Xdot1ConfigVidUsageDigestEntry 1 }

-- lldpV2Xdot1ConfigManVidTable : configure the transmission of the
-- Management VID TLVs on set of ports.
--
lldpV2Xdot1ConfigManVidTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot1ConfigManVidEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table that controls selection of LLDP Management VID
    TLVs to be transmitted on individual ports."

```

```
::= { lldpV2Xdot1Config 6 }
```

lldpV2Xdot1ConfigManVidEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1ConfigManVidEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"LLDP configuration information that specifies the set of port/destination address pairs on which the Local System Management VID will be transmitted.

This configuration object augments the lldpV2Xdot1LocManVidEntry, therefore it is only present along with the Management VID contained in the associated lldpV2Xdot1LocManVidEntry entry. Each active lldpV2Xdot1ConfigManVidEntry must be restored from non-volatile storage (along with the corresponding lldpV2Xdot1LocManVidEntry) after a re-initialization of the management system."

AUGMENTS { lldpV2Xdot1LocManVidEntry }

```
::= { lldpV2Xdot1ConfigManVidTable 1 }
```

LldpV2Xdot1ConfigManVidEntry ::= SEQUENCE {

lldpV2Xdot1ConfigManVidTxEnable TruthValue

}

lldpV2Xdot1ConfigManVidTxEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The lldpV2Xdot1ConfigManVidTxEnable, which is defined as a truth value and configured by the network management, determines whether the IEEE 802.1 organizationally defined Management VID TLV transmission is allowed on a given LLDP transmission capable port.

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

REFERENCE

"9.1.2.1 of IEEE Std 802.1AB"

DEFVAL { false }

```
::= { lldpV2Xdot1ConfigManVidEntry 1 }
```

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

```
-- lldpV2Xdot1LocTable - indexed by ifIndex.  
--
```

lldpV2Xdot1LocTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpV2Xdot1LocEntry

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

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```

    known to this agent."
 ::= { lldpV2Xdot1LocalData 1 }

lldpV2Xdot1LocEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1LocEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Information about IEEE 802.1 organizationally defined
        LLDP extension."
    INDEX       { lldpV2LocPortIfIndex }
    ::= { lldpV2Xdot1LocTable 1 }

lldpV2Xdot1LocEntry ::= SEQUENCE {
    lldpV2Xdot1LocPortVlanId      Unsigned32
}

lldpV2Xdot1LocPortVlanId OBJECT-TYPE
    SYNTAX      Unsigned32(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."
    REFERENCE
        "D.2.1.1"
    ::= { lldpV2Xdot1LocEntry 1 }

--
-- lldpV2Xdot1LocProtoVlanTable: Port and Protocol VLAN information
-- re-indexed by ifIndex.
--

lldpV2Xdot1LocProtoVlanTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1LocProtoVlanEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one or more rows per Port and Protocol
        VLAN information about the local system."
    ::= { lldpV2Xdot1LocalData 2 }

lldpV2Xdot1LocProtoVlanEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1LocProtoVlanEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Port and protocol VLAN ID Information about a particular
        port component. There may be multiple port and protocol
        VLANs, identified by a particular
        lldpV2Xdot1LocProtoVlanId, configured on the given port."
    INDEX       { lldpV2LocPortIfIndex,
                  lldpV2Xdot1LocProtoVlanId }
    ::= { lldpV2Xdot1LocProtoVlanTable 1 }

```

```

LldpV2Xdot1LocProtoVlanEntry ::= SEQUENCE {
    lldpV2Xdot1LocProtoVlanId      Unsigned32,
    lldpV2Xdot1LocProtoVlanSupported TruthValue,
    lldpV2Xdot1LocProtoVlanEnabled TruthValue
}

lldpV2Xdot1LocProtoVlanId OBJECT-TYPE
    SYNTAX      Unsigned32(0|1..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
        "D.2.2.2"
    ::= { lldpV2Xdot1LocProtoVlanEntry 1 }

lldpV2Xdot1LocProtoVlanSupported 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
        "D.2.2.1"
    ::= { lldpV2Xdot1LocProtoVlanEntry 2 }

lldpV2Xdot1LocProtoVlanEnabled 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
        "D.2.2.1"
    ::= { lldpV2Xdot1LocProtoVlanEntry 3 }

--
-- lldpV2Xdot1LocVlanNameTable : VLAN name information about the local
-- system indexed by ifIndex.
--

lldpV2Xdot1LocVlanNameTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1LocVlanNameEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one or more rows per IEEE 802.1Q VLAN
        name information on the local system known to this agent."

```

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```

 ::= { lldpV2Xdot1LocVlanNameTable 1 }

lldpV2Xdot1LocVlanNameEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1LocVlanNameEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "VLAN name Information about a particular port component.
        There may be multiple VLANs, identified by a particular
        lldpV2Xdot1LocVlanId, configured on the given port."
    INDEX       { lldpV2LocPortIfIndex,
                  lldpV2Xdot1LocVlanId }
    ::= { lldpV2Xdot1LocVlanNameTable 1 }

LldpV2Xdot1LocVlanNameEntry ::= SEQUENCE {
    lldpV2Xdot1LocVlanId      VlanId,
    lldpV2Xdot1LocVlanName    SnmpAdminString
}

lldpV2Xdot1LocVlanId 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 is compatible."
    REFERENCE   "D.2.3.2"
    ::= { lldpV2Xdot1LocVlanNameEntry 1 }

lldpV2Xdot1LocVlanName 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 given port on the
        local system.

        This object should contain the value of the
        dot1QVLANStaticName object (defined in IETF RFC 4363)
        identified with the given lldpV2Xdot1LocVlanId."
    REFERENCE   "D.2.3.4"
    ::= { lldpV2Xdot1LocVlanNameEntry 2 }

-- lldpV2Xdot1LocProtocolTable : Protocol Identity information
-- re-indexed by ifIndex and destination address
--

lldpV2Xdot1LocProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1LocProtocolEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one or more rows per protocol identity

```

information on the local system known to this agent."

REFERENCE
"D.2.4"
::= { lldpV2Xdot1LocalData 4 }

lldpV2Xdot1LocProtocolEntry OBJECT-TYPE
SYNTAX LldpV2Xdot1LocProtocolEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Information about particular protocols that are accessible through the given port component."

There may be multiple protocols, identified by particular lldpV2Xdot1ProtocolIndex, lldpV2LocPortIfIndex"

REFERENCE
"D.2.4"
INDEX { lldpV2LocPortIfIndex,
lldpV2Xdot1LocProtocolIndex }
::= { lldpV2Xdot1LocProtocolTable 1 }

LldpV2Xdot1LocProtocolEntry ::= SEQUENCE {
lldpV2Xdot1LocProtocolIndex Unsigned32,
lldpV2Xdot1LocProtocolId OCTET STRING
}

lldpV2Xdot1LocProtocolIndex OBJECT-TYPE
SYNTAX Unsigned32(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."
::= { lldpV2Xdot1LocProtocolEntry 1 }

lldpV2Xdot1LocProtocolId 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
"D.2.4.3"
::= { lldpV2Xdot1LocProtocolEntry 2 }

-- lldpV2Xdot1LocVidUsageDigestTable: Table of hash values of
-- system VID Usage Table transmitted
-- via VID Usage Digest TLV.
--

lldpV2Xdot1LocVidUsageDigestTable OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot1LocVidUsageDigestEntry
MAX-ACCESS not-accessible
STATUS current

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DESCRIPTION

"This table contains one row per ifIndex/
destination MAC address pair for usage digest
information on the local system known to this agent."

REFERENCE

"D.2.5"

::= { lldpV2Xdot1LocalData 5 }

lldpV2Xdot1LocVidUsageDigestEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1LocVidUsageDigestEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Usage digest information to be transmitted
through the given port."

REFERENCE

"D.2.5"

INDEX { lldpV2LocPortIfIndex }

::= { lldpV2Xdot1LocVidUsageDigestTable 1 }

LldpV2Xdot1LocVidUsageDigestEntry ::= SEQUENCE {
 lldpV2Xdot1LocVidUsageDigest Unsigned32
}

lldpV2Xdot1LocVidUsageDigest OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The integer value obtained by applying the CRC32 function
to the 128-octet VID Usage Table. A bit of the VID Usage
Table contains the value PBB-TE-USAGE (binary 1) if the
corresponding element of the MST Configuration Table
(IEEE Std 802.1Q 8.9.1) contains the value PBB-TE MSTID
(hex FFE) and otherwise contains the value NON-PBB-TE-USAGE
(binary 0)."

REFERENCE

"D.2.5.1"

::= { lldpV2Xdot1LocVidUsageDigestEntry 1 }

--

-- lldpV2Xdot1LocManVidTable: Table of values configured on the Local
-- system for the Management VID, or the value 0 if a Management VID
-- has not been provisioned.

--

lldpV2Xdot1LocManVidTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpV2Xdot1LocManVidEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains one row per ifIndex/
destination MAC address pair for usage digest
information on the local system known to this agent."

REFERENCE

"D.2.6"

::= { lldpV2Xdot1LocalData 6 }

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```

lldpV2Xdot1LocManVidEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1LocManVidEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Usage digest information to be transmitted
        through the given port."
    REFERENCE
        "D.2.6"
    INDEX       { lldpV2LocPortIfIndex }
    ::= { lldpV2Xdot1LocManVidTable 1 }

LldpV2Xdot1LocManVidEntry ::= SEQUENCE {
    lldpV2Xdot1LocManVid Unsigned32
}

lldpV2Xdot1LocManVid OBJECT-TYPE
    SYNTAX      Unsigned32 (0|1..4094)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The integer value configured on the Local system for
        the Management VID, or
        the value 0 if a Management VID has not been provisioned."
    REFERENCE
        "D.2.6.1"
    ::= { lldpV2Xdot1LocManVidEntry 1 }

-----
-- IEEE 802.1 - Local System Information - Link Aggregation
-----

---
---
--- lldpV2Xdot1LocLinkAggTable: Link Aggregation Information Table
---
---

lldpV2Xdot1LocLinkAggTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1LocLinkAggEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one row per port of link aggregation
        information (as a part of the LLDP 802.1 organizational
        extension) on the local system known to this agent."
    ::= { lldpV2Xdot1LocalData 7 }

lldpV2Xdot1LocLinkAggEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1LocLinkAggEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Link Aggregation information about a particular port
        component."
    INDEX       { lldpV2LocPortIfIndex }
    ::= { lldpV2Xdot1LocLinkAggTable 1 }

LldpV2Xdot1LocLinkAggEntry ::= SEQUENCE {

```


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```

lldpV2Xdot1LocLinkAggStatus      LldpV2XLinkAggStatusMap,
lldpV2Xdot1LocLinkAggPortId      Unsigned32
}

lldpV2Xdot1LocLinkAggStatus OBJECT-TYPE
    SYNTAX      LldpV2XLinkAggStatusMap
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The bitmap value contains the link aggregation
        capabilities and the current aggregation status of the
        link."
    REFERENCE
        "Annex F of IEEE Std 802.1AX-2014"
    ::= { lldpV2Xdot1LocLinkAggEntry 1 }

lldpV2Xdot1LocLinkAggPortId OBJECT-TYPE
    SYNTAX      Unsigned32(0|1..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains the IEEE 802.1 aggregated port
        identifier, aAggPortID (IEEE Std 802.1AX, 6.3.2.1.1),
        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."
    REFERENCE
        "Annex F of IEEE Std 802.1AX-2014"
    ::= { lldpV2Xdot1LocLinkAggEntry 2 }

-----
-- IEEE 802.1 - Remote System Information
-----

--
-- lldpV2Xdot1RemTable - re-indexed for ifIndex and destination MAC
-- address

lldpV2Xdot1RemTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemEntry
    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 lldpV2Xdot1RemEntry is present for
        each local port, or it may choose to maintain multiple
        lldpV2Xdot1RemEntries for the same local port."
    ::= { lldpV2Xdot1RemoteData 1 }

lldpV2Xdot1RemEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1RemEntry
    MAX-ACCESS  not-accessible
    STATUS      current

```

DESCRIPTION

"Information about a particular port component."

```
INDEX    { lldpV2RemTimeMark,
           lldpV2RemLocalIfIndex,
           lldpV2RemLocalDestMACAddress,
           lldpV2RemIndex }
 ::= { lldpV2Xdot1RemTable 1 }
```

```
LldpV2Xdot1RemEntry ::= SEQUENCE {
    lldpV2Xdot1RemPortVlanId      Unsigned32
}
```

lldpV2Xdot1RemPortVlanId OBJECT-TYPE

SYNTAX Unsigned32 (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 lldpV2Xdot1RemPortVlanId should be zero."

REFERENCE

"D.2.1.1"

```
::= { lldpV2Xdot1RemEntry 1 }
```

--

-- lldpV2Xdot1RemProtoVlanTable - re-indexed by ifIndex and
 -- destination MAC address

--

lldpV2Xdot1RemProtoVlanTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpV2Xdot1RemProtoVlanEntry

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."

```
::= { lldpV2Xdot1RemoteData 2 }
```

lldpV2Xdot1RemProtoVlanEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1RemProtoVlanEntry

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 lldpV2Xdot1RemProtoVlanId, configured on the remote system."

```
INDEX    { lldpV2RemTimeMark,
           lldpV2RemLocalIfIndex,
           lldpV2RemLocalDestMACAddress,
           lldpV2RemIndex,
           lldpV2Xdot1RemProtoVlanId }
 ::= { lldpV2Xdot1RemProtoVlanTable 1 }
```

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```

LldpV2Xdot1RemProtoVlanEntry ::= SEQUENCE {
    lldpV2Xdot1RemProtoVlanId      Unsigned32,
    lldpV2Xdot1RemProtoVlanSupported TruthValue,
    lldpV2Xdot1RemProtoVlanEnabled TruthValue
}

lldpV2Xdot1RemProtoVlanId OBJECT-TYPE
    SYNTAX      Unsigned32(0|1..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
        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
        lldpV2Xdot1RemProtoVlanId should be zero."
    REFERENCE
        "D.2.2.2"
    ::= { lldpV2Xdot1RemProtoVlanEntry 1 }

lldpV2Xdot1RemProtoVlanSupported OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The truth value used to indicate whether the given port
        (associated with the remote system) is capable of
        supporting port and protocol VLANs."
    REFERENCE
        "D.2.2.1"
    ::= { lldpV2Xdot1RemProtoVlanEntry 2 }

lldpV2Xdot1RemProtoVlanEnabled 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 remote system."
    REFERENCE
        "D.2.2.1"
    ::= { lldpV2Xdot1RemProtoVlanEntry 3 }

--
-- lldpV2Xdot1RemVlanNameTable : VLAN name information of the remote
--                               systems
-- Re-indexed by ifIndex and destination MAC address
--

lldpV2Xdot1RemVlanNameTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemVlanNameEntry
    MAX-ACCESS  not-accessible

```

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STATUS current

DESCRIPTION

"This table contains one or more rows per IEEE 802.1Q VLAN name information about the remote system, received on the given port."

REFERENCE

"D.2.3"

::= { lldpV2Xdot1RemoteData 3 }

lldpV2Xdot1RemVlanNameEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1RemVlanNameEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"VLAN name Information about a particular port component. There may be multiple VLANs, identified by a particular lldpV2Xdot1RemVlanId, received on the given port."

INDEX { lldpV2RemTimeMark,
lldpV2RemLocalIfIndex,
lldpV2RemLocalDestMACAddress,
lldpV2RemIndex,
lldpV2Xdot1RemVlanId }

::= { lldpV2Xdot1RemVlanNameTable 1 }

lldpV2Xdot1RemVlanNameEntry ::= SEQUENCE {

lldpV2Xdot1RemVlanId VlanId,
lldpV2Xdot1RemVlanName SnmpAdminString

}

lldpV2Xdot1RemVlanId 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."

REFERENCE

"D.2.3.2"

::= { lldpV2Xdot1RemVlanNameEntry 1 }

lldpV2Xdot1RemVlanName 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

"D.2.3.4"

::= { lldpV2Xdot1RemVlanNameEntry 2 }

--

-- lldpV2Xdot1RemProtocolTable : Protocol information of the remote
-- systems Re-indexed by ifIndex and destination MAC address

--

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```

lldpV2Xdot1RemProtocolTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemProtocolEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one or more rows per protocol
        information about the remote system, received on
        the given port."
    ::= { lldpV2Xdot1RemoteData 4 }

lldpV2Xdot1RemProtocolEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1RemProtocolEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Protocol information about a particular port component.
        There may be multiple protocols, identified by a particular
        lldpV2Xdot1ProtocolIndex, received on the given port."
    INDEX      { lldpV2RemTimeMark,
                  lldpV2RemLocalIfIndex,
                  lldpV2RemLocalDestMACAddress,
                  lldpV2RemIndex,
                  lldpV2Xdot1RemProtocolIndex }
    ::= { lldpV2Xdot1RemProtocolTable 1 }

LldpV2Xdot1RemProtocolEntry ::= SEQUENCE {
    lldpV2Xdot1RemProtocolIndex Unsigned32,
    lldpV2Xdot1RemProtocolId   OCTET STRING
}

lldpV2Xdot1RemProtocolIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (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."
    ::= { lldpV2Xdot1RemProtocolEntry 1 }

lldpV2Xdot1RemProtocolId 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 remote system."
    REFERENCE
        "D.2.4.3"
    ::= { lldpV2Xdot1RemProtocolEntry 2 }

--
-- lldpV2Xdot1RemVidUsageDigestTable: Table of hash values of
-- system VID Usage Table received
-- via VID Usage Digest TLV.
-- This version replaced by a reindexed version (V2).

```

--

```

lldpV2Xdot1RemVidUsageDigestTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemVidUsageDigestEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "This table contains one row per ifIndex/
        destination MAC address pair for usage digest
        information received by the local system."
    REFERENCE
        "D.2.5"
    ::= { lldpV2Xdot1RemoteData 5 }

lldpV2Xdot1RemVidUsageDigestEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1RemVidUsageDigestEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "Usage digest information received on
        the given port/destination address pair."
    REFERENCE
        "D.2.5"
    INDEX      { lldpV2RemTimeMark,
                  lldpV2RemLocalIfIndex,
                  lldpV2RemLocalDestMACAddress }
    ::= { lldpV2Xdot1RemVidUsageDigestTable 1 }

LldpV2Xdot1RemVidUsageDigestEntry ::= SEQUENCE {
    lldpV2Xdot1RemVidUsageDigest  Unsigned32
}

lldpV2Xdot1RemVidUsageDigest OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      deprecated
    DESCRIPTION
        "The integer value obtained by applying the CRC32 function
        to the 128-octet VID Usage Table. A bit of the VID Usage
        Table contains the value PBB-TE-USAGE (binary 1) if the
        corresponding element of the MST Configuration Table
        (IEEE Std 802.1Q 8.9.1) contains the value PBB-TE MSTID
        (hex FFE) and otherwise contains the value NON-PBB-TE-USAGE
        (binary 0)."
```

REFERENCE

"D.2.5.1"

lldpV2Xdot1RemVidUsageDigestEntry 1 }

--

-- lldpV2Xdot1RemManVidTable: Table of values configured on remote

-- systems for the Management VID, or the value 0 if a Management

-- VID has not been provisioned.

-- This version replaced by a reindexed version (V2).

--

lldpV2Xdot1RemManVidTable OBJECT-TYPE

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SYNTAX SEQUENCE OF LldpV2Xdot1RemManVidEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"This table contains one row per ifIndex/
destination MAC address pair for management VID
information received from remote systems."
REFERENCE
"D.2.6"
 ::= { lldpV2Xdot1RemoteData 6 }

lldpV2Xdot1RemManVidEntry OBJECT-TYPE
SYNTAX LldpV2Xdot1RemManVidEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"Management VID information received
through the given port/destination address pair."
REFERENCE
"D.2.6"
INDEX { lldpV2RemTimeMark,
lldpV2RemLocalIfIndex,
lldpV2RemLocalDestMACAddress }
 ::= { lldpV2Xdot1RemManVidTable 1 }

LldpV2Xdot1RemManVidEntry ::= SEQUENCE {
lldpV2Xdot1RemManVid Unsigned32
}

lldpV2Xdot1RemManVid OBJECT-TYPE
SYNTAX Unsigned32 (0|1..4094)
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
"The integer value configured on a system for
the Management VID, or
the value 0 if a Management VID has not been provisioned."
REFERENCE
"D.2.6.1"
 ::= { lldpV2Xdot1RemManVidEntry 1 }

--
-- lldpV2Xdot1RemVidUsageDigestV2Table: Table of hash values of
-- system VID Usage Table received
-- via VID Usage Digest TLV.
--

lldpV2Xdot1RemVidUsageDigestV2Table OBJECT-TYPE
SYNTAX SEQUENCE OF LldpV2Xdot1RemVidUsageDigestV2Entry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains one row per ifIndex/
destination MAC address pair for usage digest
information received by the local system."
REFERENCE

```

    "D.2.5"
    ::= { lldpV2Xdot1RemoteData 8 }

lldpV2Xdot1RemVidUsageDigestV2Entry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1RemVidUsageDigestV2Entry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Usage digest information received on
         the given port/destination address pair."
    REFERENCE
        "D.2.5"
    INDEX       { lldpV2RemTimeMark,
                  lldpV2RemLocalIfIndex,
                  lldpV2RemLocalDestMACAddress,
                  lldpV2RemIndex }
    ::= { lldpV2Xdot1RemVidUsageDigestV2Table 1 }

LldpV2Xdot1RemVidUsageDigestV2Entry ::= SEQUENCE {
    lldpV2Xdot1RemVidUsageDigestV2  Unsigned32
}

lldpV2Xdot1RemVidUsageDigestV2 OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The integer value obtained by applying the CRC32 function
         to the 128-octet VID Usage Table. A bit of the VID Usage
         Table contains the value PBB-TE-USAGE (binary 1) if the
         corresponding element of the MST Configuration Table
         (IEEE Std 802.1Q 8.9.1) contains the value PBB-TE MSTID
         (hex FFE) and otherwise contains the value NON-PBB-TE-USAGE
         (binary 0)."
```

REFERENCE

```

    "D.2.5.1"
    ::= { lldpV2Xdot1RemVidUsageDigestV2Entry 1 }

--
-- lldpV2Xdot1RemManVidV2Table: Table of values configured on remote
-- systems for the Management VID, or the value 0 if a Management
-- VID has not been provisioned.
--

lldpV2Xdot1RemManVidV2Table OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemManVidV2Entry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one row per ifIndex/
         destination MAC address pair for management VID
         information received from remote systems."
    REFERENCE
        "D.2.6"
    ::= { lldpV2Xdot1RemoteData 9 }

lldpV2Xdot1RemManVidV2Entry OBJECT-TYPE

```


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```

SYNTAX      LldpV2Xdot1RemManVidV2Entry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Management VID information received
    through the given port/destination address pair."
REFERENCE
    "D.2.6"
INDEX       { lldpV2RemTimeMark,
              lldpV2RemLocalIfIndex,
              lldpV2RemLocalDestMACAddress,
              lldpV2RemIndex }
 ::= { lldpV2Xdot1RemManVidV2Table 1 }

LldpV2Xdot1RemManVidV2Entry ::= SEQUENCE {
    lldpV2Xdot1RemManVidV2      Unsigned32
}

lldpV2Xdot1RemManVidV2 OBJECT-TYPE
    SYNTAX Unsigned32 (0|1..4094)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The integer value configured on a system for
        the Management VID, or
        the value 0 if a Management VID has not been provisioned."
    REFERENCE
        "D.2.6.1"
 ::= { lldpV2Xdot1RemManVidV2Entry 1 }

-----
-- Remote System Information - Link Aggregation
-----

---
---
--- lldpV2Xdot1RemLinkAggTable: Link Aggregation Information Table
---
---
lldpV2Xdot1RemLinkAggTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemLinkAggEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains port link aggregation information
        (as a part of the LLDP IEEE 802.1 organizational extension)
        of the remote system."
    ::= { lldpV2Xdot1RemoteData 7 }

lldpV2Xdot1RemLinkAggEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1RemLinkAggEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Link Aggregation information about remote system's port
        component."
    INDEX       { lldpV2RemTimeMark,

```

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```

        lldpV2RemLocalIfIndex,
        lldpV2RemLocalDestMACAddress,
        lldpV2RemIndex }
 ::= { lldpV2Xdot1RemLinkAggTable 1 }

LldpV2Xdot1RemLinkAggEntry ::= SEQUENCE {
        lldpV2Xdot1RemLinkAggStatus          LldpV2XLinkAggStatusMap,
        lldpV2Xdot1RemLinkAggPortId          Unsigned32
}

lldpV2Xdot1RemLinkAggStatus OBJECT-TYPE
    SYNTAX      LldpV2XLinkAggStatusMap
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The bitmap value contains the link aggregation capabilities
        and the current aggregation status of the link."
    REFERENCE
        "Annex F of IEEE Std 802.1AX-2014"
    ::= { lldpV2Xdot1RemLinkAggEntry 1 }

lldpV2Xdot1RemLinkAggPortId OBJECT-TYPE
    SYNTAX      Unsigned32(0|1..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains the IEEE 802.1 aggregated port
        identifier, aAggPortID (IEEE Std 802.1AX, 6.3.2.1.1),
        derived from the ifNumber of the ifIndex for the port
        component associated with the remote system.

        If the remote port is not in link aggregation state and/or
        it does not support link aggregation, this value should be
        zero."
    REFERENCE
        "Annex F of IEEE Std 802.1AX-2014"
    ::= { lldpV2Xdot1RemLinkAggEntry 2 }

-----
-- Conformance Information for the basicSet TLV set
-----

lldpV2Xdot1Conformance
    OBJECT IDENTIFIER ::= { lldpV2Xdot1MIB 2 }
lldpV2Xdot1Compliances
    OBJECT IDENTIFIER ::= { lldpV2Xdot1Conformance 1 }
lldpV2Xdot1Groups
    OBJECT IDENTIFIER ::= { lldpV2Xdot1Conformance 2 }

-- compliance statements

lldpV2Xdot1TxRxCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "A compliance statement for SNMP entities that implement
        the IEEE 802.1 organizationally defined LLDP extension MIB.

```

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This group is mandatory for all agents that implement the LLDP 802.1 organizational extension in TX and/or RX mode for the basicSet TLV set.

This version defines compliance requirements for V2 of the LLDP MIB."

```
MODULE -- this module
    MANDATORY-GROUPS { lldpV2Xdot1ConfigGroup,
                        ifGeneralInformationGroup
    }
::= { lldpV2Xdot1Compliances 1 }
```

lldpV2Xdot1TxCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"A compliance statement for SNMP entities that implement the IEEE 802.1 organizationally defined LLDP extension MIB.

This group is mandatory for agents that implement the LLDP 802.1 organizational extension in the RX mode for the basicSet TLV set.

This version defines compliance requirements for V2 of the LLDP MIB."

```
MODULE -- this module
    MANDATORY-GROUPS { lldpV2Xdot1LocSysGroup }

::= { lldpV2Xdot1Compliances 2 }
```

lldpV2Xdot1RxCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"A compliance statement for SNMP entities that implement the IEEE 802.1 organizationally defined LLDP extension MIB.

This group is mandatory for agents that implement the LLDP 802.1 organizational extension in the RX mode for the basicSet TLV set.

This version defines compliance requirements for V2 of the LLDP MIB."

```
MODULE -- this module
    MANDATORY-GROUPS { lldpV2Xdot1RemSysGroup }

::= { lldpV2Xdot1Compliances 3 }
```

lldpV2Xdot1RxComplianceV2 MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"A compliance statement for SNMP entities that implement the IEEE 802.1 organizationally defined LLDP extension MIB.

This group is mandatory for agents that implement the LLDP 802.1 organizational extension in the RX mode for the basicSet TLV set.

This version defines compliance requirements for V2 of the LLDP MIB."

```

MODULE -- this module
    MANDATORY-GROUPS { lldpV2Xdot1RemSysV2Group }

    ::= { lldpV2Xdot1Compliances 4 }

-- MIB groupings for the basicSet TLV set

lldpV2Xdot1ConfigGroup OBJECT-GROUP
    OBJECTS {
        lldpV2Xdot1ConfigPortVlanTxEnable,
        lldpV2Xdot1ConfigVlanNameTxEnable,
        lldpV2Xdot1ConfigProtoVlanTxEnable,
        lldpV2Xdot1ConfigProtocolTxEnable,
        lldpV2Xdot1ConfigVidUsageDigestTxEnable,
        lldpV2Xdot1ConfigManVidTxEnable
    }
    STATUS current
    DESCRIPTION
        "The collection of objects which are used to configure the
        IEEE 802.1 organizationally defined LLDP extension
        implementation behavior for the basicSet TLV set."
    ::= { lldpV2Xdot1Groups 1 }

lldpV2Xdot1LocSysGroup OBJECT-GROUP
    OBJECTS {
        lldpV2Xdot1LocPortVlanId,
        lldpV2Xdot1LocProtoVlanSupported,
        lldpV2Xdot1LocProtoVlanEnabled,
        lldpV2Xdot1LocVlanName,
        lldpV2Xdot1LocProtocolId,
        lldpV2Xdot1LocVidUsageDigest,
        lldpV2Xdot1LocManVid,
        lldpV2Xdot1LocLinkAggStatus,
        lldpV2Xdot1LocLinkAggPortId
    }
    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 for the
        basicSet TLV set."
    ::= { lldpV2Xdot1Groups 2 }

lldpV2Xdot1RemSysGroup OBJECT-GROUP
    OBJECTS {
        lldpV2Xdot1RemPortVlanId,
        lldpV2Xdot1RemProtoVlanSupported,
        lldpV2Xdot1RemProtoVlanEnabled,
        lldpV2Xdot1RemVlanName,
        lldpV2Xdot1RemProtocolId,
        lldpV2Xdot1RemVidUsageDigest,
        lldpV2Xdot1RemManVid,
        lldpV2Xdot1RemLinkAggStatus,
        lldpV2Xdot1RemLinkAggPortId
    }
    STATUS deprecated
    DESCRIPTION
        "The collection of objects which are used to represent LLDP
  
```

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802.1 organizational extension Remote Device Information
for the basicSet TLV set."

```

 ::= { lldpV2Xdot1Groups 3 }

lldpV2Xdot1RemSysV2Group OBJECT-GROUP
  OBJECTS {
    lldpV2Xdot1RemPortVlanId,
    lldpV2Xdot1RemProtoVlanSupported,
    lldpV2Xdot1RemProtoVlanEnabled,
    lldpV2Xdot1RemVlanName,
    lldpV2Xdot1RemProtocolId,
    lldpV2Xdot1RemVidUsageDigestV2,
    lldpV2Xdot1RemManVidV2,
    lldpV2Xdot1RemLinkAggStatus,
    lldpV2Xdot1RemLinkAggPortId
  }
  STATUS current
  DESCRIPTION
    "The collection of objects which are used to represent LLDP
    802.1 organizational extension Remote Device Information
    for the basicSet TLV set."
  ::= { lldpV2Xdot1Groups 4 }

-----
--
-- Organizational Defined Information Extension - IEEE 802.1
-- Definitions to support the cnSet TLV set (Table D-1)
-- for Congestion Notification
--
-----

lldpXdot1CnMIB OBJECT IDENTIFIER ::= { lldpV2Xdot1MIB 3 }
lldpXdot1CnObjects OBJECT IDENTIFIER ::= { lldpXdot1CnMIB 1 }

-- CN 802.1 MIB Extension groups

lldpXdot1CnConfig OBJECT IDENTIFIER ::= { lldpXdot1CnObjects 1 }
lldpXdot1CnLocalData OBJECT IDENTIFIER ::= { lldpXdot1CnObjects 2 }
lldpXdot1CnRemoteData OBJECT IDENTIFIER ::= { lldpXdot1CnObjects 3 }

-----
-- Textual conventions for Congestion Notification
-----

LldpV2CnBitVector ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "This TC describes a bit vector used in the Congestion
    Notification objects. Each bit represents a Boolean status
    associated with a priority code point. A bit value of 0
    represents FALSE, 1 represents TRUE.

    The bit 'pri0status(0)' indicates the status for priority 0
    The bit 'pri1status(1)' indicates the status for priority 1
    The bit 'pri2status(2)' indicates the status for priority 2
    The bit 'pri3status(3)' indicates the status for priority 3
    The bit 'pri4status(4)' indicates the status for priority 4
  
```

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The bit 'pri5status(5)' indicates the status for priority 5
The bit 'pri6status(6)' indicates the status for priority 6
The bit 'pri7status(7)' indicates the status for priority 7"

```
SYNTAX  BITS {
    pri0status(0),
    pri1status(1),
    pri2status(2),
    pri3status(3),
    pri4status(4),
    pri5status(5),
    pri6status(6),
    pri7status(7)
}
```

```
-----
-- IEEE 802.1 - Congestion Notification Configuration
-----
```

```
--
-- lldpXdot1CnConfigCnTable : configure the
-- transmission of the Congestion Notification TLV on a set of ports
--
```

lldpXdot1CnConfigCnTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpXdot1CnConfigCnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that controls selection of Congestion Notification
TLVs to be transmitted on individual ports."

::= { lldpXdot1CnConfig 1 }

lldpXdot1CnConfigCnEntry OBJECT-TYPE

SYNTAX LldpXdot1CnConfigCnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"LLDP configuration information that controls the
transmission of IEEE 802.1 organizationally defined
Congestion Notification TLV 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 lldpConfigEntry is restored from non-volatile
storage (along with the corresponding lldpV2PortConfigEntry)
after a re-initialization of the management system."

AUGMENTS { lldpV2PortConfigEntry }

::= { lldpXdot1CnConfigCnTable 1 }

```
LldpXdot1CnConfigCnEntry ::= SEQUENCE {
    lldpXdot1CnConfigCnTxEnable TruthValue
}
```

lldpXdot1CnConfigCnTxEnable OBJECT-TYPE

SYNTAX TruthValue

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MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The lldpXdot1CnConfigCnTxEnable, which is defined as a truth value and configured by the network management, determines whether the IEEE 802.1 organizationally defined Congestion Notification TLV transmission is allowed on a given LLDP transmission capable port.

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

REFERENCE

"D.2.8"

DEFVAL { false }

::= { lldpXdot1CnConfigCnEntry 1 }

-- IEEE 802.1 - Congestion Notification Local System Information

--- lldpV2Xdot1LocCnTable: Port Extension Information Table

lldpV2Xdot1LocCnTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpV2Xdot1LocCnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains one row per port of Congestion Notification information (as a part of the LLDP 802.1 organizational extension) on the local system known to this agent."

::= { lldpXdot1CnLocalData 1 }

lldpV2Xdot1LocCnEntry OBJECT-TYPE

SYNTAX LldpV2Xdot1LocCnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Congestion Notification information about a particular port component."

INDEX { lldpV2LocPortIfIndex }

::= { lldpV2Xdot1LocCnTable 1 }

LldpV2Xdot1LocCnEntry ::= SEQUENCE {

lldpV2Xdot1LocCNPVIndicators LldpV2CnBitVector,

lldpV2Xdot1LocReadyIndicators LldpV2CnBitVector

}

lldpV2Xdot1LocCNPVIndicators OBJECT-TYPE

SYNTAX LldpV2CnBitVector

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the CNPV indicators for the Port."

REFERENCE

```

        "D.2.8.3"
 ::= { lldpV2Xdot1LocCnEntry 1 }

lldpV2Xdot1LocReadyIndicators OBJECT-TYPE
    SYNTAX      LldpV2CnBitVector
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains the Ready indicators
        for the Port."
    REFERENCE
        "D.2.8.4"
 ::= { lldpV2Xdot1LocCnEntry 2 }

-----
-- IEEE 802.1 - Congestion Notification Remote System Information
-----

---
---
--- lldpV2Xdot1RemCnTable: Port Extension Information Table
---
---
lldpV2Xdot1RemCnTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1RemCnEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains Congestion Notification information
        (as a part of the LLDP IEEE 802.1 organizational extension)
        of the remote system."
 ::= { lldpXdot1CnRemoteData 1 }

lldpV2Xdot1RemCnEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1RemCnEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Port Extension information about remote systems port
        component "
    INDEX      { lldpV2RemTimeMark,
                  lldpV2RemLocalIfIndex,
                  lldpV2RemLocalDestMACAddress,
                  lldpV2RemIndex }
 ::= { lldpV2Xdot1RemCnTable 1 }

lldpV2Xdot1RemCnEntry ::= SEQUENCE {
    lldpV2Xdot1RemCNPVIndicators  LldpV2CnBitVector,
    lldpV2Xdot1RemReadyIndicators LldpV2CnBitVector
}

lldpV2Xdot1RemCNPVIndicators OBJECT-TYPE
    SYNTAX      LldpV2CnBitVector
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains the CNPV indicators
        for the Port."
    REFERENCE

```


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```

        "D.2.8.3"
 ::= { lldpV2Xdot1RemCnEntry 1 }

lldpV2Xdot1RemReadyIndicators OBJECT-TYPE
    SYNTAX      LldpV2CnBitVector
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains the Ready indicators
        for the Port."
    REFERENCE
        "D.2.8.4"
 ::= { lldpV2Xdot1RemCnEntry 2 }

-----
-- IEEE 802.1 - Congestion Notification Conformance Information
-----

lldpXdot1CnConformance OBJECT IDENTIFIER ::= { lldpV2Xdot1MIB 4 }

lldpXdot1CnCompliances
    OBJECT IDENTIFIER ::= { lldpXdot1CnConformance 1 }
lldpXdot1CnGroups OBJECT IDENTIFIER ::= { lldpXdot1CnConformance 2 }

--
-- Congestion Notification - Compliance Statements
--

lldpXdot1CnCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "A compliance statement for SNMP entities that implement
        the IEEE 802.1 organizationally defined Congestion
        Notification LLDP extension MIB.

        This group is mandatory for agents that implement the
        Congestion Notification cnSet TLV set."
    MODULE      -- this module
        MANDATORY-GROUPS { lldpXdot1CnGroup,
                            ifGeneralInformationGroup }
    ::= { lldpXdot1CnCompliances 1 }

--
-- Congestion Notification - MIB groupings
--

lldpXdot1CnGroup OBJECT-GROUP
    OBJECTS {
        lldpXdot1CnConfigCnTxEnable,
        lldpV2Xdot1LocCNPVIndicators,
        lldpV2Xdot1LocReadyIndicators,
        lldpV2Xdot1RemCNPVIndicators,
        lldpV2Xdot1RemReadyIndicators
    }
    STATUS      current
    DESCRIPTION
        "The collection of objects that support the
        Congestion Notification cnSet TLV set."

```

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```

 ::= { lldpXdot1CnGroups 1 }

-----
--
-- Organizational Defined Information Extension - IEEE 802.1
-- Definitions to support the Data Center eXchange Protocol
-- (DCBX) TLV set (Table D-1)
--
-----

lldpXdot1dcbxMIB OBJECT IDENTIFIER ::= { lldpV2Xdot1MIB 5 }
lldpXdot1dcbxObjects OBJECT IDENTIFIER ::= { lldpXdot1dcbxMIB 1 }

-- DCBX 802.1 MIB Extension groups

lldpXdot1dcbxConfig OBJECT IDENTIFIER ::= { lldpXdot1dcbxObjects 1 }
lldpXdot1dcbxLocalData OBJECT IDENTIFIER ::= { lldpXdot1dcbxObjects 2 }
lldpXdot1dcbxRemoteData OBJECT IDENTIFIER ::= { lldpXdot1dcbxObjects 3 }
lldpXdot1dcbxAdminData OBJECT IDENTIFIER ::= { lldpXdot1dcbxObjects 4 }

-----
-- IEEE 802.1 - DCBX Textual Conventions
-----

LldpXdot1dcbxTrafficClassValue ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS current
    DESCRIPTION
        "Indicates a traffic class. Values 0-7 correspond to
        traffic classes."
    SYNTAX Unsigned32 (0..7)

LldpXdot1dcbxTrafficClassBandwidthValue ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS current
    DESCRIPTION
        "Indicates the bandwidth in percent assigned to a
        traffic class."
    SYNTAX Unsigned32 (0..100)

LldpXdot1dcbxAppSelector ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
        "Indicates the contents of a protocol object
        1: Ethertype
        2: Well Known Port number over TCP, or SCTP
        3: Well Known Port number over UDP, or DCCP
        4: Well Known Port number over TCP, SCTP, UDP, and DCCP"
    SYNTAX INTEGER {
        asEthertype(1),
        asTCPPortNumber(2),
        asUDPPortNumber(3),
        asTCPUDPPortNumber(4)
    }

LldpXdot1dcbxAppProtocol ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS current

```

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DESCRIPTION

"Contains the application protocol indicator the
type of which is specified by an object with
the syntax of
LldpXdot1dcbxAppSelector"

SYNTAX Unsigned32 (0..65535)

LldpXdot1dcbxSupportedCapacity ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"Indicates the supported capacity of a given feature,
for example, the number of traffic classes supported.
This TC is used for features that have a maximum
capacity of eight and a minimum of one."

SYNTAX Unsigned32 (1..8)

LldpXdot1dcbxTrafficSelectionAlgorithm ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the Traffic Selection Algorithm
0: Strict Priority
1: Credit-based shaper
2: Enhanced transmission selection
3-254: Reserved for future standardization
255: Vendor specific"

SYNTAX INTEGER {
tsaStrictPriority(0),
tsaCreditBasedShaper(1),
tsaEnhancedTransmission(2),
tsaVendorSpecific(255)
}

-- IEEE 802.1 - DCBX Configuration

--
-- lldpXdot1dcbxConfigETSTable : configure the
-- transmission of the ETS Configuration TLV on a set of ports
--

lldpXdot1dcbxConfigETSTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpXdot1dcbxConfigETSTableEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that controls selection of ETS Configuration
TLVs to be transmitted on individual ports."

::= { lldpXdot1dcbxConfig 1 }

lldpXdot1dcbxConfigETSTableEntry OBJECT-TYPE

SYNTAX LldpXdot1dcbxConfigETSTableEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"LLDP configuration information that controls the
transmission of IEEE 802.1 organizationally defined
ETS Configuration TLV on LLDP transmission capable ports."

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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 lldpConfigEntry is restored from non-volatile storage (along with the corresponding lldpV2PortConfigEntry) after a re-initialization of the management system."

```
AUGMENTS      { lldpV2PortConfigEntry }
::= { lldpXdot1dcbxConfigETSConfigurationTable 1 }
```

```
LldpXdot1dcbxConfigETSConfigurationEntry ::= SEQUENCE {
    lldpXdot1dcbxConfigETSConfigurationTxEnable TruthValue
}
```

lldpXdot1dcbxConfigETSConfigurationTxEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The lldpXdot1dcbxConfigETSConfigurationTxEnable, which is defined as a truth value and configured by the network management, determines whether the IEEE 802.1 organizationally defined ETS Configuration TLV transmission is allowed on a given LLDP transmission capable port.

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

REFERENCE

"D.2.9"

DEFVAL { false }

```
::= { lldpXdot1dcbxConfigETSConfigurationEntry 1 }
```

--

```
-- lldpXdot1dcbxConfigETSRecommendationTable : configure the
-- transmission of the ETS Recommendation TLV on a set of ports
--
```

lldpXdot1dcbxConfigETSRecommendationTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpXdot1dcbxConfigETSRecommendationEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that controls selection of ETS Recommendation TLVs to be transmitted on individual ports."

```
::= { lldpXdot1dcbxConfig 2 }
```

lldpXdot1dcbxConfigETSRecommendationEntry OBJECT-TYPE

SYNTAX LldpXdot1dcbxConfigETSRecommendationEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"LLDP configuration information that controls the transmission of IEEE 802.1 organizationally defined ETS Recommendation TLV on LLDP transmission capable ports.

This configuration object augments the lldpV2PortConfigEntry of the LLDP-MIB, therefore it is only present along with the port

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configuration defined by the associated lldpV2PortConfigEntry entry.

Each active lldpConfigEntry is restored from non-volatile storage (along with the corresponding lldpV2PortConfigEntry) after a re-initialization of the management system."

```
AUGMENTS      { lldpV2PortConfigEntry }
::= { lldpXdot1dcbxConfigETSRecommendationTable 1 }
```

```
LldpXdot1dcbxConfigETSRecommendationEntry ::= SEQUENCE {
    lldpXdot1dcbxConfigETSRecommendationTxEnable TruthValue
}
```

lldpXdot1dcbxConfigETSRecommendationTxEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The lldpXdot1dcbxConfigETSRecommendationTxEnable, which is defined as a truth value and configured by the network management, determines whether the IEEE 802.1 organizationally defined ETS Recommendation TLV transmission is allowed on a given LLDP transmission capable port.

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

REFERENCE

"D.2.10"

DEFVAL { false }

```
::= { lldpXdot1dcbxConfigETSRecommendationEntry 1 }
```

--

```
-- lldpXdot1dcbxConfigPFCTable : configure the transmission of the
-- Priority-based Flow Control Configuration TLV on a set of ports
--
```

lldpXdot1dcbxConfigPFCTable OBJECT-TYPE

SYNTAX SEQUENCE OF LldpXdot1dcbxConfigPFCEntity

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that controls selection of Priority-based Flow Control Configuration TLVs to be transmitted on individual ports."

```
::= { lldpXdot1dcbxConfig 3 }
```

lldpXdot1dcbxConfigPFCEntity OBJECT-TYPE

SYNTAX LldpXdot1dcbxConfigPFCEntity

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"LLDP configuration information that controls the transmission of IEEE 802.1 organizationally defined Priority-based Flow Control Configuration TLV 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.

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Each active lldpConfigEntry is restored from non-volatile storage (along with the corresponding lldpV2PortConfigEntry) after a re-initialization of the management system."

```
AUGMENTS      { lldpV2PortConfigEntry }
::= { lldpXdot1dcbxConfigPFCTable 1 }
```

```
LldpXdot1dcbxConfigPFCEntEntry ::= SEQUENCE {
    lldpXdot1dcbxConfigPFCTxEnable TruthValue
}
```

lldpXdot1dcbxConfigPFCTxEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The lldpXdot1dcbxConfigPFCTxEnable, which is defined as a truth value and configured by the network management, determines whether the IEEE 802.1 organizationally defined Priority-based Flow Control Configuration TLV transmission is allowed on a given LLDP transmission capable port.

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

REFERENCE

"D.2.11"

DEFVAL { false }

```
::= { lldpXdot1dcbxConfigPFCEntEntry 1 }
```

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

```
-- lldpXdot1dcbxConfigApplicationPriorityTable : configure the
-- transmission of the Application Priority TLV on a set of ports
--
```

lldpXdot1dcbxConfigApplicationPriorityTable OBJECT-TYPE

SYNTAX SEQUENCE OF

LldpXdot1dcbxConfigApplicationPriorityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that controls selection of Priority-based Flow Control Configuration TLVs to be transmitted on individual ports."

```
::= { lldpXdot1dcbxConfig 4 }
```

lldpXdot1dcbxConfigApplicationPriorityEntry OBJECT-TYPE

SYNTAX LldpXdot1dcbxConfigApplicationPriorityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"LLDP configuration information that controls the transmission of IEEE 802.1 organizationally defined Application Priority TLV 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 lldpConfigEntry is restored from non-volatile storage (along with the corresponding lldpV2PortConfigEntry)

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after a re-initialization of the management system."

AUGMENTS { lldpV2PortConfigEntry }

::= { lldpXdot1dcbxConfigApplicationPriorityTable 1 }

lldpXdot1dcbxConfigApplicationPriorityEntry ::= SEQUENCE {
 lldpXdot1dcbxConfigApplicationPriorityTxEnable TruthValue
 }

lldpXdot1dcbxConfigApplicationPriorityTxEnable OBJECT-TYPE
 SYNTAX TruthValue
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION
 "The lldpXdot1dcbxConfigApplicationPriorityTxEnable, which
 is defined as a truth value and configured by the network
 management, determines whether the IEEE 802.1 organizationally
 defined Application Priority TLV transmission is allowed on
 a given LLDP transmission capable port.

 The value of this object is restored from non-volatile
 storage after a re-initialization of the management system."
 REFERENCE
 "D.2.12"
 DEFVAL { false }
 ::= { lldpXdot1dcbxConfigApplicationPriorityEntry 1 }

 -- IEEE 802.1 - DCBX Local System Information

--
 -- lldpXdot1dcbxLocETSConfigurationTable - Contains the information
 -- for the ETS Configuration TLV.
 --

lldpXdot1dcbxLocETSConfiguration OBJECT IDENTIFIER
 ::= { lldpXdot1dcbxLocalData 1 }

lldpXdot1dcbxLocETSBasicConfigurationTable OBJECT-TYPE
 SYNTAX SEQUENCE OF LldpXdot1dcbxLocETSBasicConfigurationEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains one row per port for the IEEE 802.1
 organizationally defined LLDP ETS Configuration TLV on
 the local system known to this agent"
 ::= { lldpXdot1dcbxLocETSConfiguration 1 }

lldpXdot1dcbxLocETSBasicConfigurationEntry OBJECT-TYPE
 SYNTAX LldpXdot1dcbxLocETSBasicConfigurationEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Information about the IEEE 802.1 organizational defined
 ETS Configuration TLV LLDP extension."
 INDEX { lldpV2LocPortIfIndex }
 ::= { lldpXdot1dcbxLocETSBasicConfigurationTable 1 }

lldpXdot1dcbxLocETSBasicConfigurationEntry ::= SEQUENCE {
 lldpXdot1dcbxLocETSConCreditBasedShaperSupport TruthValue,

```

lldpXdot1dcbxLocETSTrafficClassesSupported
    LldpXdot1dcbxSupportedCapacity,
lldpXdot1dcbxLocETSTrafficClassesSupported    TruthValue
}

lldpXdot1dcbxLocETSTrafficClassesSupported OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
        "Indicates if the credit-based shaper Traffic Selection
        Algorithm is supported on the local system."
    REFERENCE
        "D.2.9.4"
    ::= { lldpXdot1dcbxLocETSTrafficClassesSupportedEntry 1 }

lldpXdot1dcbxLocETSTrafficClassesSupported OBJECT-TYPE
    SYNTAX      LldpXdot1dcbxSupportedCapacity
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
        "Indicates the number of traffic classes supported."
    REFERENCE
        "D.2.9.5"
    ::= { lldpXdot1dcbxLocETSTrafficClassesSupportedEntry 2 }

lldpXdot1dcbxLocETSTrafficClassesSupported OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
        "Indicates if the local system is willing to accept the
        ETS configuration recommended by the remote system."
    REFERENCE
        "D.2.9.3"
    ::= { lldpXdot1dcbxLocETSTrafficClassesSupportedEntry 3 }

lldpXdot1dcbxLocETSTrafficClassesSupported OBJECT-TYPE
    SYNTAX      SEQUENCE OF
        LldpXdot1dcbxLocETSTrafficClassesSupportedEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains one row per priority. The entry in each
        row indicates the traffic class to which the priority is
        assigned."
    ::= { lldpXdot1dcbxLocETSTrafficClassesSupportedTable 2 }

lldpXdot1dcbxLocETSTrafficClassesSupportedEntry OBJECT-TYPE
    SYNTAX      LldpXdot1dcbxLocETSTrafficClassesSupportedEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        "Indicates a priority to traffic class assignment."
    INDEX
        {
            lldpV2LocPortIfIndex,
            lldpXdot1dcbxLocETSTrafficClassesSupportedPriority
        }
    ::= { lldpXdot1dcbxLocETSTrafficClassesSupportedTable 1 }

```


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```

LldpXdot1dcbxLocETSConPriorityAssignmentEntry ::= SEQUENCE {
    lldpXdot1dcbxLocETSConPriority      IEEE8021PriorityValue,
    lldpXdot1dcbxLocETSConPriTrafficClass
        LldpXdot1dcbxTrafficClassValue
}

lldpXdot1dcbxLocETSConPriority OBJECT-TYPE
    SYNTAX      IEEE8021PriorityValue
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "Indicates the priority that is assigned to a traffic
        class."
    REFERENCE
        "D.2.9.6"
    ::= { lldpXdot1dcbxLocETSConPriorityAssignmentEntry 1 }

lldpXdot1dcbxLocETSConPriTrafficClass OBJECT-TYPE
    SYNTAX      LldpXdot1dcbxTrafficClassValue
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "Indicates the traffic class to which this priority is
        to be assigned."
    REFERENCE
        "D.2.9.6"
    ::= { lldpXdot1dcbxLocETSConPriorityAssignmentEntry 2 }

lldpXdot1dcbxLocETSConTrafficClassBandwidthTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF
        LldpXdot1dcbxLocETSConTrafficClassBandwidthEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "This table contains one row per traffic class. The
        entry in each row indicates the traffic class to
        which the bandwidth is assigned."
    ::= { lldpXdot1dcbxLocETSConConfiguration 3 }

lldpXdot1dcbxLocETSConTrafficClassBandwidthEntry OBJECT-TYPE
    SYNTAX      LldpXdot1dcbxLocETSConTrafficClassBandwidthEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "Indicates a traffic class to Bandwidth assignment."
    INDEX
        {
            lldpV2LocPortIfIndex,
            lldpXdot1dcbxLocETSConTrafficClass
        }
    ::= { lldpXdot1dcbxLocETSConTrafficClassBandwidthTable 1 }

LldpXdot1dcbxLocETSConTrafficClassBandwidthEntry ::= SEQUENCE {
    lldpXdot1dcbxLocETSConTrafficClass
        LldpXdot1dcbxTrafficClassValue,
    lldpXdot1dcbxLocETSConTrafficClassBandwidth
        LldpXdot1dcbxTrafficClassBandwidthValue
}

```

lldpXdot1dcbxLocETSTrafficClass OBJECT-TYPE
 SYNTAX LldpXdot1dcbxTrafficClassValue
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Indicates the traffic class to which this bandwidth applies"
 REFERENCE
 "D.2.9.7"
 ::= { lldpXdot1dcbxLocETSTrafficClassBandwidthEntry 1 }

lldpXdot1dcbxLocETSTrafficClassBandwidth OBJECT-TYPE
 SYNTAX LldpXdot1dcbxTrafficClassBandwidthValue
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION
 "Indicates the bandwidth assigned to this traffic class."
 REFERENCE
 "D.2.9.7"
 ::= { lldpXdot1dcbxLocETSTrafficClassBandwidthEntry 2 }

lldpXdot1dcbxLocETSTrafficSelectionAlgorithmTable OBJECT-TYPE
 SYNTAX SEQUENCE OF
 LldpXdot1dcbxLocETSTrafficSelectionAlgorithmEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "This table contains one row per traffic class. The entry in each row indicates the traffic selection algorithm to be used by the traffic class."
 ::= { lldpXdot1dcbxLocETSTrafficSelectionAlgorithmEntry 4 }

lldpXdot1dcbxLocETSTrafficSelectionAlgorithmEntry OBJECT-TYPE
 SYNTAX LldpXdot1dcbxLocETSTrafficSelectionAlgorithmEntry
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Indicates a traffic class to traffic selection algorithm assignment."
 INDEX
 {
 lldpV2LocPortIfIndex,
 lldpXdot1dcbxLocETSTrafficClass
 }
 ::= { lldpXdot1dcbxLocETSTrafficSelectionAlgorithmTable 1 }

LldpXdot1dcbxLocETSTrafficSelectionAlgorithmEntry ::= SEQUENCE {
 lldpXdot1dcbxLocETSTrafficClass
 LldpXdot1dcbxTrafficClassValue,
 lldpXdot1dcbxLocETSTrafficSelectionAlgorithm
 LldpXdot1dcbxTrafficSelectionAlgorithm
}

lldpXdot1dcbxLocETSTrafficClass OBJECT-TYPE
 SYNTAX LldpXdot1dcbxTrafficClassValue
 MAX-ACCESS not-accessible
 STATUS current
 DESCRIPTION
 "Indicates the traffic class that is assigned to a traffic

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```

        selection algorithm."
REFERENCE
    "D.2.9.8"
::= { lldpXdot1dcbxLocETSConTrafficSelectionAlgorithmEntry 1 }

lldpXdot1dcbxLocETSConTrafficSelectionAlgorithm OBJECT-TYPE
SYNTAX      LldpXdot1dcbxTrafficSelectionAlgorithm
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Indicates the Traffic Selection Algorithm to which this
    traffic class is to be assigned."
REFERENCE
    "D.2.9.8"
::= { lldpXdot1dcbxLocETSConTrafficSelectionAlgorithmEntry 2 }

--
-- lldpXdot1dcbxLocETSRecommendationTable - Contains the information for
-- the ETS Recommendation TLV.
--
lldpXdot1dcbxLocETSReco OBJECT IDENTIFIER ::=
{ lldpXdot1dcbxLocalData 2 }

lldpXdot1dcbxLocETSRecoTrafficClassBandwidthTable OBJECT-TYPE
SYNTAX      SEQUENCE OF
            LldpXdot1dcbxLocETSRecoTrafficClassBandwidthEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains one row per traffic class. The
    entry in each row indicates the traffic class to
    which the bandwidth is assigned."
::= { lldpXdot1dcbxLocETSReco 1 }

lldpXdot1dcbxLocETSRecoTrafficClassBandwidthEntry OBJECT-TYPE
SYNTAX      LldpXdot1dcbxLocETSRecoTrafficClassBandwidthEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Indicates a traffic class to Bandwidth assignment."
INDEX
    {
        lldpV2LocPortIfIndex,
        lldpXdot1dcbxLocETSRecoTrafficClass
    }
::= { lldpXdot1dcbxLocETSRecoTrafficClassBandwidthTable 1 }

lldpXdot1dcbxLocETSRecoTrafficClassBandwidthEntry ::= SEQUENCE {
    lldpXdot1dcbxLocETSRecoTrafficClass
        LldpXdot1dcbxTrafficClassValue,
    lldpXdot1dcbxLocETSRecoTrafficClassBandwidth
        LldpXdot1dcbxTrafficClassBandwidthValue
}

lldpXdot1dcbxLocETSRecoTrafficClass OBJECT-TYPE
SYNTAX      LldpXdot1dcbxTrafficClassValue
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "Indicates the traffic class to

```

which this bandwidth applies"

REFERENCE

"D.2.10.3"

::= { lldpXdot1dcbxLocETSRecoTrafficClassBandwidthEntry 1 }

lldpXdot1dcbxLocETSRecoTrafficClassBandwidth OBJECT-TYPE

SYNTAX LldpXdot1dcbxTrafficClassBandwidthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates the bandwidth assigned to this traffic class."

REFERENCE

"D.2.10.4"

::= { lldpXdot1dcbxLocETSRecoTrafficClassBandwidthEntry 2 }

lldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmTable OBJECT-TYPE

SYNTAX SEQUENCE OF

LldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains one row per priority. The entry in each row indicates the traffic selection algorithm to be used by the traffic class."

::= { lldpXdot1dcbxLocETSReco 2 }

lldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmEntry OBJECT-TYPE

SYNTAX LldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indicates a priority to traffic selection algorithm assignment."

INDEX {
 lldpV2LocPortIfIndex,
 lldpXdot1dcbxLocETSRecoTSATrafficClass
 }

::= { lldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmTable 1 }

LldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmEntry ::= SEQUENCE {

lldpXdot1dcbxLocETSRecoTSATrafficClass

LldpXdot1dcbxTrafficClassValue,

lldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithm

LldpXdot1dcbxTrafficSelectionAlgorithm

}

lldpXdot1dcbxLocETSRecoTSATrafficClass OBJECT-TYPE

SYNTAX LldpXdot1dcbxTrafficClassValue

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indicates the traffic class that is assigned to a traffic selection algorithm."

REFERENCE

"D.2.10.5"

::= { lldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithmEntry 1 }

lldpXdot1dcbxLocETSRecoTrafficSelectionAlgorithm OBJECT-TYPE

SYNTAX LldpXdot1dcbxTrafficSelectionAlgorithm