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| IEEE 802.1 REVISION REQUEST 0005 |
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DATE:17 June 2011
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REQUESTED REVISION:
STANDARD: IEEE 802.1Q-2011
CLAUSE NUMBER: D4 and LLDP-EXT-DOT1-V2-MIB.mip
CLAUSE TITLE: IEEE 802.1/LLDP extension MIB

RATIONALE FOR REVISION:

The Link Aggregation TLV was added to the dot1 LLDP TLVs (moved from dot3) in 802.1AB-2009 and tables were added to Local and Remote System Information to support it. All TLVs are supposed to have an enable in the Configuration Group but this was not added for the Link Aggregation TLV.

Also, there is an error in table D-5 for lldpV2Xdot1ConfigPortVlanTable. The LLDP reference says that it augments itself and that lldpV2Xdot1ConfigCnTable augments lldpV2dot1LocManVidEntry. The MIB says that the entries for both augment lldpB2PortConfigEntry.

The objects added to the Congestion Notification were not added to the security considerations in D.4.4.

PROPOSED REVISION TEXT:

D4.2

In Table D-5, add the following to the Configuration Group:

lldpV2Xdot1ConfigLinkAggTable	Augments lldpV2Xdot1LocLinkAggEntry
lldpV2Xdot1ConfigLinkAggTxEnable	Normal LLPDUs, 9.1.2.1 of IEEE Std 802.1AB

For the entries in Table D-5 for lldpV2Xdot1ConfigPortVlanTable and for lldpV2Xdot1ConfigCnTable, change the LLDP reference column to "Augments lldpB2PortConfigEntry"

D4.4

Add to the list of objects following f) and adjust the later lettered bullets accordingly:

lldpV2Xdot1ConfigLinkAggTxEnable
lldpXdot1CnConfigCnTxEnable

Add to the numbered list under g):

lldpV2Xdot1LocCNPVIndicators
lldpV2Xdot1LocReadyIndicators

Add to the numbered list under h):

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lldpV2Xdot1RemCNPVIndicators
lldpV2Xdot1RemReadyIndicators
```

D4.5

Add to the MIB in the section on Configuration for the basic TLV set:

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lldpV2Xdot1ConfigLinkAggTable : configure the transmission of the
--                               Link Aggregation TLVs on set of ports.
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lldpV2Xdot1ConfigLinkAggTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF LldpV2Xdot1ConfigLinkAggEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table that controls selection of LLDP Link Aggregation TLVs
        to be transmitted on individual ports."
    ::= { lldpV2Xdot1Config 1 }
```

```
lldpV2Xdot1ConfigLinkAggEntry OBJECT-TYPE
    SYNTAX      LldpV2Xdot1ConfigLinkAggEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "LLDP configuration information that controls the
        transmission of IEEE 802.1 organizationally defined
        Link Aggregation 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 }
    ::= { lldpV2Xdot1ConfigLinkAggTable 1 }
```

```
LldpV2Xdot1ConfigLinkAggEntry ::= SEQUENCE {
    lldpV2Xdot1ConfigLinkAggTxEnable TruthValue
}
```

```
lldpV2Xdot1ConfigLinkAggTxEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The lldpV2Xdot1ConfigLinkAggTxEnable, which is defined
        as a truth value and configured by the network management,
        determines whether the IEEE 802.1 organizationally defined
        Link Aggregation 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

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"9.1.2.1 of IEEE Std 802.1AB"  
DEFVAL { false }  
::= { lldpV2Xdot1ConfigLinkAggEntry 1 }
```

IMPACT ON EXISTING NETWORKS:

This change shouldn't affect the operation of existing networks. Some are probably still using the 802.3 Link Aggregation TLV from 802.1AB-2005. Those that use the 802.1 Link Aggregation TLV from 802.1AB-2009 and 802.1Q-2011 presumably have implementation dependent means for enabling and disabling it or the always or never send it.

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| Please attach supporting material, if any  
| Submit to:- Tony Jeffree, Chair IEEE 802.1  
| and copy:- Paul Congdon, Vice-Chair IEEE 802.1  
| E-Mail: stds-802-1-maint-req@ieee.org  
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+----- For official 802.1 use -----+  
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