

main_0121.txt

+-- IEEE 802.1 REVISION REQUEST 0121
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REQUESTED REVISION:

STANDARD: IEEE 802.1AB-2009
CLAUSE NUMBER: 8.5.8, 11.2, 11.5.2
CLAUSE TITLE: System Capabilities TLV, Structure of the LLDP MIB, LLDP MIB module - version 2

RATIONALE FOR REVISION:

1. In Section 8.5.8 Figure 8-10, System Capabilities TLV is shown to have a "Chassis ID subtype" as shown below, which is wrong. Chassis-ID subtype should be part of Chassis-ID TLV.

| TLVTYPE | TLV information string length | Chassis-ID subtype | System Capabilities | Enabled Capabilites

2. In Section 11.2, Table 11-2 – LLDP MIB structure and object cross reference, below MIB objects are maintained globally instead of per LLDP Agent

11dpV2MessageTxInterval
11dpV2MessageTxHoldMultiplier
11dpV2ReinitDelay
11dpV2NotificationInterval
11dpV2TxCreditMax
11dpV2MessageFastTx
11dpV2TxFastInit

As per the mapping shown in the table for above MIB objects, they map to variables maintained per LLDP Agent.

3. In Section 11.5.2 for 11dpV2MessageTxHoldMultiplier OBJECT-TYPE, TTL value is computed as per the logic shown below

TTL = min(65535, (11dpV2MessageTxInterval * 11dpV2MessageTxHoldMultiplier))

PROPOSED REVISION TEXT:

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1. Correct System Capabilities TLV format should be as shown below

TLVTYPE	TLV information string length	System Capabilities	Enabled Capabilities
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2. As per the section 9.2.5 msgTxInterval, msgTxHold, reinitDelay, txCreditMax, msgFastTx and txFastInit are per LLDP Agent variables.

Per Agent MIB objects should be maintained under 11dpV2PortConfigTable.

<BEFORE>

11dpV2PortConfigTable	
11dpV2PortConfigIfIndex	(Table index)
11dpV2PortConfigDestAddressIndex	(Table index)
11dpV2PortConfigAdminStatus	adminStatus, 9.2.5.1
11dpV2PortConfigNotificationEnable	-
11dpV2PortConfigTLVsTxEnable	9.1.2.1

<AFTER>

11dpV2PortConfigTable	
11dpV2PortConfigIfIndex	(Table index)
11dpV2PortConfigDestAddressIndex	(Table index)
11dpV2PortConfigAdminStatus	adminStatus, 9.2.5.1
11dpv2MessageTxInterval	msgTxInterval, 9.2.5.7
11dpv2MessageTxHoldMultiplier	msgTxHold, 9.2.5.6
11dpv2ReinitDelay	reinitDelay, 9.2.5.10
11dpv2NotificationInterval	msgTxInterval, 9.2.5.7
11dpv2TxCreditMax	txCreditMax, 9.2.5.17
11dpv2MessageFastTx	msgFastTx, 9.2.5.5
11dpv2TxFastInit	txFastInit, 9.2.5.19
11dpV2PortConfigNotificationEnable	-
11dpV2PortConfigTLVsTxEnable	9.1.2.1

3. In Section 11.5.2 for 11dpv2MessageTxHoldMultiplier OBJECT-TYPE, TTL value should be computed as shown below according to section 9.2.5.22

TTL = min(65535, (11dpv2MessageTxInterval * 11dpv2MessageTxHoldMultiplier) + 1)

IMPACT ON EXISTING NETWORKS:

1. Wrong system capability TLV is sent in LLDPDU.
2. Current 802.1AB-2009 MIB has no option to obtain variables per-agent.

Please attach supporting material, if any
Submit to:- Tony Jeffree, Chair IEEE 802.1
and copy:- Glenn Parsons, Vice-Chair IEEE 802.1

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