

P802.1AB-2016-Rev D0.1

Comment on 9.2.8.7.1 (g)

what is included and not included in the text

Existing text in draft

- g) If the implementation supports XLLDP and the TLV type value matches the Manifest TLV type:
 - 1) If the MSAP identifier in the current LLDPDU does not match an MSAP identifier in the LLDP remote systems MIB, the total MIB entry size is extracted from the Manifest TLV. If there is insufficient space in the LLDP remote systems MIB to store the neighbor information, and the policy is to discard the current LLDPDU rather than delete information for other MSAPs:
 - i) The flag variable `tooManyNeighbors` is set to TRUE.
 - ii) If the `rxTTL` value in the LLDPDU is greater than the value of the `tooManyNeighborsTimer`, the `tooManyNeighborsTimer` is set to the `rxTTL` value.
 - iii) The `statsFrameDiscardedTotal` counter is incremented.
 - iv) The `rxType` value is changed to invalid.
 - 2) If the MSAP identifier in the current LLDPDU matches an MSAP identifier in the LLDP remote systems MIB, or there is sufficient space in the LLDP remote systems MIB to store the new neighbor information, then:
 - i) The `rxType` value is changed to manifest.
 - ii) If an extended receive state machine does not already exist for the MSAP identifier in the current LLDPDU, an extended receive state machine for that MSAP identifier is created and its `createExtRx` variable is set to TRUE.

Does not handle case where policy is to discard info for other MSAPs, but data still cannot fit

Does not handle case where there is insufficient space for an update to an existing MSAP that increases the space requirement

Proposed change to 9.2.8.7.1 g)

- g) If the implementation supports XLLDP and the TLV type value matches the Manifest TLV type:
- 1) Calculate the additional required space in the LLDP remote system MIB to store new or updated neighbor information:
 - i) If the MSAP identifier in the current LLDPDU does not match an MSAP identifier in the LLDP remote systems MIB, the total MIB entry size is extracted from the Manifest TLV and used as the additional required space.
 - ii) If the MSAP identifier in the current LLDPDU matches an MSAP identifier in the LLDP remote system, the additional required space is the difference between the total MIB entry size as extracted from the Manifest TLV and the current size of the of the data associated with the MSAP identifier in the LLDP remote system MIB.
 - ~~1)2)~~ If there is insufficient space in the LLDP remote systems MIB to store the neighbor information (based on the additional required space calculated in 1 above), and the policy is to discard the current LLDPDU rather than delete information for other MSAPs or if there would be insufficient space after deleting all possible information for other MSAPs from the remote system MIB then::
 - i) The flag variable tooManyNeighbors is set to TRUE.
 - ii) If the rxTTL value in the LLDPDU is greater than the value of the tooManyNeighborsTimer, the tooManyNeighborsTimer is set to the rxTTL value.
 - iii) The statsFrameDiscardedTotal counter is incremented.
 - iv) The rxType value is changed to invalid.
 - ~~2)3)~~ If the MSAP identifier in the current LLDPDU matches an MSAP identifier in the LLDP remote systems MIB, or there is sufficient space in the LLDP remote systems MIB or the policy allows to delete information from other MSAPs rather than discarding the current LLDPDU and sufficient space can be created to store the new neighbor information (based on the space calculated in 1 above), then:
 - i) The rxType value is changed to manifest.
 - ii) If an extended receive state machine does not already exist for the MSAP identifier in the current LLDPDU, an extended receive state machine for that MSAP identifier is created and its createExtRx variable is set to TRUE.