Q13/15 thanks IEEE P802.3cx Task Force for the liaison on status of IEEE P802.3cx Task Force (IEEE802.3WorkingGroup-LS104).

The liaison was discussed at the Q13/15 meeting held in December 2021.

The liaison addresses an important topic as it is related to the performance that can be met by clocks as specified in ITU-T G.8273.2 (ref. 1). An Amendment to G.8272.3 has been consented at this SG15 Plenary (see ref. 2), among other things highlighting the issue with Idle insertion/removal, alignment marker/codeword marker insertion/removal for 25GbE, 40GbE and 100GbE and the issue with the PCS lane distribution/merging for 40G and 100G, if they are not accounted for.

During the discussion it was identified that for pre-IEEE 802.3cx manufactured equipment it would be beneficial to communicate timestamping capabilities between the peers on the ethernet link to

1) detect time error caused by different time stamping point etc., and

2) potentially adapt the time stamping point to match the remote peer.
This could be communicated via TLV, and various options have been discussed at this meeting. In fact, many protocols that rely on accurate time stamping, such as ethernet OAM, IETF TWAMP, etc., or PTP itself, could be valid choices but it is not obvious what protocol to use to convey the information. Investigation will continue at future meetings.

We look forward to continued fruitful cooperation.

References:


2. TD 806R1/PLEN, G.8273.2 Amd.1

Attachment: TD806R1/PLEN