INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION STANDARDIZATION SECTOR

STUDY PERIOD 2017-2020

SG15-LS349
STUDY GROUP 15

Original: English

Question(s):	13/15	E-Meeting, 6-17 December 2021

LS
(Ref.: SG15-TD780/PLEN-Annex D)

Source:	ITU-T Study Group 15
Title:	LS/r on status of IEEE P802.3cx Task Force (reply to IEEE802.3WorkingGroup-LS104)

LIAISON STATEMENT

For action to:	-
For comment to:	
For information to:	IEEE 802.3 Working Group (P802.3cx Task Force)
Approval:	ITU-T SG15 (E-meeting, 17 December 2021)
Deadline:	-

Contact:	Stefano Ruffini Rapporteur Q13/15	E-mail:
Contact:	Silvana Rodrigues Associate Rapporteur Q13/15	Email:

Keywords:	Timestamping accuracy, PTP

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:

1. G.8273.2, Timing characteristics of telecom boundary clocks and telecom time slave clocks for use with full timing support from the network (https://www.itu.int/ITU-T/recommendations/rec.aspx?rec=14507)
2. TD 806R1/PLEN, G.8273.2 Amd.1

Attachment: TD806R1/PLEN

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