

IEEE 802.3 Ethernet Working Group
Liaison Communication

Source: IEEE 802.3 Working Group¹

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From: David Law Chair, IEEE 802.3 Ethernet Working Group
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Subject: Liaison reply to ITU-T SG15: ANT Standardization Work Plan

Approval: Agreed to at IEEE 802.3 plenary teleconference meeting, 18 November 2021

Dear Mr Trowbridge and members of ITU-T SG15,

Following the recent liaison exchange between our groups on the topic of Access Network Transport (ANT) Standardization Work Plan, we would like to update you on the activities within the IEEE 802.3 Working Group, which might be of interest to SG15.

Since our last communication, there were several changes in the status of access-related projects within the IEEE 802.3 Working Group:

- The IEEE P802.3cs Task Force has completed its technical work on the development of increased-reach Ethernet optical subscriber access (so-called Super-PON), supporting a passive point-to-multipoint ODN with a reach of at least 50 km with at least 1:64 split ratio per wavelength pair, with at least 16 wavelength pairs for point-to-multipoint PON operation. Operation of 10 Gb/s downstream and 2.5 Gb/s and 10 Gb/s is also supported.

¹ This document solely represents the views of the IEEE 802.3 Working Group and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

The amendment to IEEE Std 802.3-2022 is currently on track to be published in 2022.

More information about the IEEE P802.3cs Task Force, including the PAR, CSD, and Objectives, can be found at the following URL: <http://www.ieee802.org/3/cs/index.html>.

- The IEEE P802.3cx Task Force is continuing its technical work on the development of optional enhancements to Ethernet support for time synchronization protocols to provide improved timestamp accuracy in support of ITU-T Recommendation G.8273.2 'Class C' and 'Class D' system time error performance requirements.

More information about the IEEE P802.3cx Task Force, including the PAR, CSD, and Objectives, can be found at the following URL: <http://www.ieee802.org/3/cx/index.html>.

The draft standard for this Task Force is currently in the IEEE SA Ballot.

- The IEEE 802.3dc Task Force has completed its work on the revision of IEEE Std 802.3-2018 as modified by approved amendments IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std 802.3cn-2019, IEEE Std 802.3cg-2019, IEEE Std 802.3cq-2020, IEEE Std 802.3cm-2020, IEEE Std 802.3ch-2020, IEEE Std 802.3ca-2020, IEEE Std 802.3cr-2021, IEEE Std 802.3cu-2021, IEEE Std 802.3cv-2021, IEEE Std 802.3ct-2021, and IEEE Std 802.3cp-2021. The completed new baseline IEEE Std 802.3 standard was approved on the 13th of May 2022 and published on the 29th of July 2022.

More information about the IEEE P802.3dc Task Force can be found at the following URL: <http://www.ieee802.org/3/dc/index.html>.

- A new IEEE 802.3 Greater than 50 Gb/s Bidirectional Optical Access PHYs Study Group was formed out of July 2022 meeting, targeting the development of higher speed bidirectional fiber access links exceeding the capacity supported by the IEEE Std 802.3cp.

More information about the Study Group can be found at the following URL: <https://www.ieee802.org/3/GT50GBIDI/index.html>.

We wish to thank the leadership and members of ITU-T SG15 for the opportunity to coordinate references to our work programs and we look forward to such continuing cooperation with ITU-T SG15 in the future.

Sincerely,
David J. Law
Chair, IEEE 802.3 Ethernet Working Group