IEEE 802.3 Ethernet Working Group
Liaison Communication

Source: IEEE 802.3 Working Group[1]

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CC:	Alpesh Shah	Secretary, IEEE-SA Standards Board Secretary, IEEE-SA Board of Governors
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	Adam Healey	Vice-chair, IEEE 802.3 Ethernet Working Group
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From:	David Law	Chair, IEEE 802.3 Ethernet Working Group

Subject: Liaison reply to ITU-T SG15: OTNT Standardization Work Plan

Approval: Agreed to at IEEE 802.3 plenary meeting, 13 March 2025

Dear Mr Parsons and members of ITU-T SG15,

Thank you for your liaison statement from July 2024 concerning the OTNT Standardization Workplan.

Concerning aspects of this workplan and other activity within Study Group 15, please be aware of the following:

The current version of the Ethernet standard is 802.3-2022. Since our last communication, two new documents have been approved and published:

- IEEE Std 802.3™-2022/Cor 1-2025, *IEEE Standard for Ethernet Corrigendum 1: Multi-Gigabit Automotive Medium Dependent Interface (MDI) Return Loss*, was approved by the Standards Board on 26 September 2024 and published on 15 January 2025.

[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.

- IEEE Std 802.3.1-2024, IEEE Standard for Ethernet Structure of Management Information version 2 (SMIv2) Data Model Definitions, was approved by the Standards Board on 11 December 2024 and published on 17 December 2024.

In addition, the following amendments (communicated in previous liaison statements) remain in force:

- Amendment 1: IEEE Std 802.3dd-2022, Power over Data Lines of Single Pair Ethernet
- Amendment 2: IEEE Std 802.3cs-2022, Physical Layers and Management Parameters for Increased-Reach Point-to-Multipoint Ethernet Optical Subscriber Access (Super-PON)
- Amendment 3: IEEE Std 802.3db-2022, Physical Layer Specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Operation over Optical Fiber Using 100 Gb/s Signaling
- Amendment 4: IEEE Std 802.3ck-2022, Physical Layer Specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Based on 100 Gb/s Signaling
- Amendment 5: IEEE Std 802.3de-2022, Enhancements to MAC Merge and Time Synchronization Service Interface for Point-to-Point 10 Mb/s Single-Pair Ethernet.
- Amendment 6: IEEE Std 802.3cx-2023, Media Access Control (MAC) Service Interface and Management Parameters to Support Improved Precision Time Protocol (PTP) Timestamping Accuracy
- Amendment 7: IEEE Std 802.3cz-2023, Physical Layer Specifications and Management Parameters for Multi-Gigabit Optical Automotive Ethernet
- Amendment 8, IEEE Std 802.3cy-2023, Physical Layer Specifications and Management Parameters for 25 Gb/s Electrical Automotive
- Amendment 9: IEEE Std 802.3df-2024, Media Access Control Parameters for 800 Gb/s and Physical Layers and Management Parameters for 400 Gb/s and 800 Gb/s Operation

As noted above, a revised version of the Ethernet MIBs standard, aligning with IEEE Std 802.3-2022, has been published as IEEE Std 802.3.1-2024.

The current version of the Ethernet YANG models is published as IEEE Std 802.3.2-2019. A maintenance project (802.3.2a) to update this YANG model to cover the new features present in IEEE Std 802.3-2022 is in the Standards Association Ballot phase.

Two new study groups within the IEEE 802.3 Working Group have been formed since our last update:

- The Ethernet Powering Cabling Restrictions study group is considering cabling aspects of single-pair power over Ethernet interfaces
- The IEEE 802.3 Pin-optimized PHY interface study group is 10/100M interfaces with connectors that have fewer than 8 pins

In addition, the following Task Forces, Study Groups, and ad hoc groups remain active within the IEEE 802.3 Working Group:

- The IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force is in the Working Group ballot phase. Per the adopted timeline, this task force expects to complete its work in January or March 2026.

- The IEEE P802.3dg Physical Layer Specifications and Management Parameters for 100 Mb/s Operation and associated Power Delivery over a Single Balanced Pair of Conductors Task Force is in the proposal selection phase. Per the adopted timeline, this task force expects to complete its work in June 2026.
- The IEEE P802.3dj 200 Gb/s, 400Gb/s, 800Gb/s, and 1.6Tb/s Ethernet Task Force in the task force review phase. As you may recall, we shared D1.4 of this amendment with you in January 2025. Per the adopted timeline, this task force expects to complete its work in September 2026.
- The IEEE P802.3dk Greater than 50 Gb/s Bidirectional Access PHYs Task Force is in the working group ballot phase. Per the adopted timeline, this task force expects to complete its work in March 2026.
- The IEEE P802.3dm Asymmetrical Electrical Automotive Ethernet Task Force is in the proposal selection phase. This task force has not yet adopted a timeline.

Concerning Issue 34 of the OTNT Standardization work plan itself:

- The text in clause 4.6.1.13 can be updated to reflect the status of work as indicated above.
- Table 3 in clause 6.1 can be updated to reflect the publication of 802.3.1-2024, which may be relevant in the context of OTN systems.

Thank you for the opportunity to review and comment on this workplan. We look forward to continued collaboration between ITU-T Study Group 15 and the IEEE 802.3 Working Group.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group