IEEE 802.3 Ethernet Working Group
Liaison Communication

Source: IEEE 802.3 Working Group[1]

To:		
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CC:		
	Konstantinos Karachalios	Secretary, IEEE-SA Standards Board Secretary, IEEE-SA Board of Governors
	Paul Nikolich	Chair, IEEE 802 LMSC
	Adam Healey	Vice-chair, IEEE 802.3 Ethernet Working Group
	Jon Lewis	Secretary, IEEE 802.3 Ethernet Working Group

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 teleconference meeting, 15 September 2022

Dear Mr Parsons and members of ITU-T SG15,

Thank you for your liaison statement from December 2021 concerning the OTNT Standardization Workplan.

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

Since our last communication, a revision to the Ethernet standard has been completed. IEEE Std 802.3-2022: IEEE Standard for Ethernet was approved on 13 May 2022 and published on 29 July 2022. This revision incorporates the 14 amendments to IEEE Std 802.3-2018 that we have communicated previously, as well as a number of maintenance requests.

There is one approved and published amendment to IEEE Std 802.3-2022:

- Amendment 1: IEEE Std 802.3dd-2022, Power over Data Lines of Single Pair Ethernet, was approved by the Standards Board on 16 June 2022 and published on 31 August 2022.

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[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 current version of the Ethernet MIBs standard is published as IEEE Std 802.3.1-2013. An update to this SNMP MIB document to cover the new features present in IEEE Std 802.3-2022 is under consideration.

The current version of IEEE Std 802.3.2-2019, Ethernet YANG models, was approved by the Standards Board on 26th March 2019 and was published on 21st June 2019. An update to this YANG model to cover the new features present in IEEE Std 802.3-2022 is under consideration.

The following Task Forces, Study Groups, and ad hoc groups are currently active or have recently concluded their work within the IEEE 802.3 Working Group:

- The IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force has concluded its work, pending approval of the Review Committee.

- The IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) Task Force has concluded its work, pending approval of the Review Committee.

- The IEEE P802.3cw 400 Gb/s over DWDM Systems Task Force is in the Working Group ballot phase.

- The IEEE P802.3cx Improving PTP Timestamping Accuracy Task Force is in the Standards Association ballot phase.

- The IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force is in the Working Group ballot phase.

- The IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet using Graded-Index Glass Optical Fiber Task Force is in the Standards Association ballot phase. The scope of this task force formerly included plastic optical fiber; that work was moved to the P802.3dh Task Force based a longer timeline to completion.

- The IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force is in the proposal selection phase.

- The IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force has concluded its work, pending approval of the Review Committee.

- The IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet Task Force has concluded its work, pending approval of the Review Committee.

- The IEEE P802.3df 200 Gb/s, 400Gb/s, 800Gb/s, and 1.6Tb/s Ethernet Task Force, was formed in January 2022 from the Beyond 400 Gb/s Study Group and is in the proposal selection phase. The Task Force is considering splitting into two, with P802.3df focusing on interfaces with reach of 2 km or less and based on 100G lanes and a new task force (P802.3dj) considering interfaces based on 200G lanes or with reach longer than 2 km. This split is expected to be submitted for approval in November 2022.

- 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 was formed out of the Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group and is in the proposal selection phase.

- The IEEE P802.3dh Multi-Gigabit Optical Automotive Ethernet using Graded-Index Plastic Optical Fiber Task Force was formerly part of the scope of the P802.3cz Task Force and is in the proposal selection phase.

There is one active Study Group. A study group is an activity that has not yet reached the stage of an approved Project Authorization Request (PAR), Criteria for Standardization Development (CSD), or project objectives.

- The IEEE 802.3 Greater than 50 Gb/s Bidirectional Access PHYs Study Group was initiated after a successful "Call for Interest" in July 2022 and began meeting in September 2022.

Concerning Issue 30 of the OTNT Standardization work plan itself:

- In clause 4.2, the reference to IEEE Std 802.3-2018 should be updated to IEEE Std 802.3-2022

- In Clause 4.7.1.1, the first two paragraphs can be combined and reference IEEE Std 802.3-2022 for all the PHYs. The third paragraph can be updated to remove IEEE P802.cp, add P802.3df, and indicate P802.3db as a recently completed project

- In clause 4.7.1.2, the reference to IEEE Std 802.3-2018 should be updated to IEEE Std 802.3-2022, the text concerning P802.3ca should be deleted, and the text concerning P802.3cs can be described as recently completed.

- The text clause 4.7.1.13 can be updated to reflect the status described above

- Table 3 in clause 6.1 can be updated to reflect the status described above

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