

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

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Subject: Liaison Response to ITU-T Study Group 15 from IEEE 802.3 on OTNT Standardization Workplan

Approval: Agreed to at IEEE 802.3 Plenary meeting
San Antonio, TX, USA, 6th November 2014

Dear Mr. Trowbridge and members of ITU-T Study Group 15,

Following the liaison exchange between our groups on the topic of the OTNT Standardization Work Plan in April 2014, we would like to update you on the activities within the IEEE 802.3 Working Group, which might be of interest to SG15.

Some specific comments on the document which you sent to us in April 2014:

- In clause 5.6.1.1, please note that the approved IEEE Std 802.3bj has added 100GBASE-CR4, 100GBASE-KR4, and 100GBASE-KP4 to the list of high bit-rate interfaces. The P802.3bm project nearing completion will add 100GBASE-SR4 and 40GBASE-ER4.
- In clause 5.6.1.10, IEEE Std 802.3bj-2014 as noted below can be added to the list of published IEEE 802.3 standards, and the list of currently active projects can be amended per the information below.

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 in-force amendments IEEE Std 802.3bk-2013 and IEEE Std 802.3bj-2014 could be added to Table 7-1-3.

The following are the IEEE 802.3 standards currently in force:

- The base standard is published as IEEE Std 802.3-2012, based on the last approved full revision of the standard.
- There are two amendments in force, IEEE Std 802.3bk-2013 (Physical Layer Specifications and Management Parameters for Extended Ethernet Passive Optical Networks) and IEEE Std 802.3bj-2014 (Physical Layer Specifications and Management Parameters for 100 Gb/s Operation Over Backplanes and Copper Cables). Both of these amendments have been published since our previous communication.
- The current version of the Ethernet MIBs standard is published as IEEE Std 802.3.1-2013.

The following Task Forces, Study Groups, and ad hoc groups are currently active within the IEEE 802.3 working group:

- The IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Task Force is nearing completion and has **received conditional approval** to forward to RevCom assuming the sponsor ballot process completes successfully with review of Draft 3.3 to be produced following this meeting.
- The IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force is currently conducting task force review and is expecting to begin the working group ballot phase in **March 2015**.
- The IEEE P802.3bp 1000BASE-T1 Task Force is currently conducting task force review and is expecting to begin the working group ballot phase in **March 2015**.
- The P802.3bq 40GBASE-T Task Force is currently conducting task force review and is expecting to begin the working group ballot phase in **March 2015**. **Note that a successful CFI held during this meeting, subject to subsequent approvals, is expected to expand the scope of this project to include specifications for 25GBASE-T.**
- The P802.3br Interspersing Express Traffic (IET) Task Force is currently conducting task force review and is expecting to begin the working group ballot phase in **March 2015**.
- The P802.3bs 400 Gb/s Ethernet Task Force is currently in the proposal selection phase.
- The P802.3bt DTE Power via MDI over 4-Pair Task Force is currently in the proposal selection phase, and is expected to begin task force review in **January 2015**.
- The P802.3bu 1-Pair Power over Data Lines (PoDL) Task Force is currently in the proposal selection phase and is expected to begin task force review in **January 2015**.
- The P802.3bw 100BASE-T1 Task Force has completed task force review. **Agreement has been reached at this meeting to begin working group ballot for this project.**
- The Gigabit Ethernet Over Plastic Optical Fiber Study Group has submitted its Project Authorization Request (PAR), Criteria for Standards Development (CSD) and Project objectives which were **approved by IEEE 802.3** in this meeting. Pending subsequent approval by the IEEE 802 EC and Standards Board meetings, this will become the P802.3bv task force which will hold its first meeting during the January 2015 interim.

- The 25 Gb/s Ethernet Study Group has submitted its PAR, CSD, and Project objectives which were approved by IEEE 802.3 in this meeting. Pending subsequent approval by the IEEE 802 EC and Standards Board meetings, this will become the P802.3by task force which will hold its first meeting during the January 2015 interim.
- The Next Generation Ethernet Passive Optical Networking (NGEPON) Industry Connection Activity is operating as an ad hoc under IEEE 802.3 and is expected to submit a report for IEEE 802.3 approval in early 2015.
- After a successful Call for Interest (CFI), IEEE 802.3 agreed to create a Study Group for a Next Generation Enterprise Access BASE-T PHY, which would aim to charter a project to specify one or more new Ethernet speeds between 1 Gb/s and 10 Gb/s to operate over 100m of Cat5e or better structured cabling. The first meeting of the new Study Group will be held in the January 2015 interim.
- Note that a successful CFI for 25GBASE-T will result in expanding the scope of the P802.3bq project as noted above rather than creating an additional group.

Finally, we wish to inform you that IEEE 802.3 has begun its next revision project, which is expected to create a full revision of IEEE Std 802.3-2012 by late 2015. This revision is expected to integrate the approved amendments IEEE Std 802.3bk-2013, IEEE Std 802.3bj-2014, and the amendment being produced by the P802.3bm task force which is expected to be approved early next year, plus select maintenance items deemed "ready for ballot" received since the 2012 revision. IEEE 802.3 agreed to begin the working group ballot phase for this revision at our meeting in November.

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