IEEE 802.3 Ethernet Working Group Liaison Communication

Source:	IEEE 802.3 Working Group[1]	
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From:	David Law	Chair, IEEE 802.3 Ethernet Working Group dlaw@hp.com
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 Berlin, Germany, 12 March 2015	

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

In response to your liaison statement on the OTNT Standardization Workplan of December 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 December 2014:

- In clause 5.5 in the penultimate paragraph there is a list of data rates supported by Ethernet physical layer interfaces ranging from 100 Mb/s to 100 Gb/s. Please note that there are current IEEE 802.3 efforts aimed at introducing interfaces with new rates of operation at 2.5 Gb/s, 5 Gb/s, 25 Gb/s, and 400 Gb/s.
- In clause 5.6.1.1, it is mentioned that the P802.3bm project is nearing completion and will add 100GBASE-SR4 and 40GBASE-ER4. We are pleased to inform you that IEEE Std 802.3bm-2015 has now been approved by the standards board and publication is expected inMarch 2015. In Clause 5.6.1.11 where you list the applicable in-force 802.3

[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.

standards, you can now add “IEEE Std 802.3bm-2015 – Amendment 3: Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables”. This amendment can also be added to Table 7-1-3 with the expected publication date of March 2015.

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 three amendments in force, IEEE Std 802.3bk-2013 (Physical Layer Specifications and Management Parameters for Extended Ethernet Passive Optical Networks), IEEE Std 802.3bj-2014 (Physical Layer Specifications and Management Parameters for 100 Gb/s Operation Over Backplanes and Copper Cables), and IEEE Std 802.3bm-2015 (Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables). The final of these amendments is expected to be published prior to the next plenary meeting of ITU-T SG15.
- 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 has completed its work with the approval of the amendment and can be removed from your list of active task forces.
- 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 July 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 July 2015.
- The P802.3bq 40GBASE-T Task Force began the working group ballot phase in March 2015. In this meeting, IEEE 802.3 has passed motions which, subject to subsequent SASB approval, will result in expanding the scope of this project to include 25GBASE-T. The clause numbering of the draft amendment on which IEEE 802.3 has just initiated working group ballot has already been adjusted in anticipation of adding 25GBASE-T as part of a single, amendment together with 40GBASE-T.
- The P802.3br Interspersing Express Traffic (IET) Task Force began 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 after the July 2015 meeting.
- The P802.3bu 1-Pair Power over Data Lines (PoDL) Task Force is currently in the task force review phase and is expected to begin Working Group ballot in November 2015.

- The P802.3bw 100BASE-T1 Task Force is in the working group ballot phase and has received conditional approval to initiate sponsor ballot prior to the July 2015 plenary of IEEE 802.
- The P802.3bv Gigabit Ethernet Over Plastic Optical Fiber Task Force is in the proposal selection phase and is expected to begin Task Force review by the May 2015 interim meeting.
- The P802.3by 25 Gb/s Ethernet Task Force has completed proposal selection and is currently in the task force review phase.
- The Next Generation Enterprise Access BASE-T Study Group has submitted a PAR, Criteria for Standards Development (CSD), and Project Objectives which, subject to SASB approval, will result in the formation of the P802.3bz 2.5 Gb/s and 5 Gb/s Ethernet Task Force.
- The Next Generation Ethernet Passive Optical Network (NGEPON) Industry Connection Activity which operated as an ad hoc under IEEE 802.3 has completed its work. The final report has been approved by IEEE 802.3 and will be published shortly on the IEEE 802.3 web site.

IEEE 802.3 has initiated the sponsor ballot phase for the 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 IEEE Std 802.3bm-2015, plus select maintenance items received since the 2012 revision deemed “ready for ballot”.

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