

802.3 liaison report for Jan 2018

IEEE interim, Geneva

Tom Palkert

Macom

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Meetings that may interest us

- 802.3bs
- 802.3cd
- 100Gb/s per lane electrical study group
- Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Study Group

P802.3bs 400 Gb/s Ethernet Task Force

- Draft 3.5 received zero comments in the final sponsor ballot recirculation
- Approved by the Standards Board on 6 December 2017. Published on 12 December 2017. This project is complete!

P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet Task Force

- 10th Task Force meeting 6-7 November 2017, Orlando, FL
 - Meeting Materials:
<http://www.ieee802.org/3/cd/public/Nov17/>
 - Meeting Minutes:
http://www.ieee802.org/3/cd/public/Nov17/minutes_3cd_1117_unapproved-v2.pdf
- Resolved 31 comments against Draft 2.2 – many rejected and postponed to Sponsor Ballot. Received unconditional approval to and produced Draft 3.0 for initial Sponsor Ballot
- Received 175 comments on initial Sponsor ballot to be resolved in January interim

802.3cd

- **Activities since November 2017 meeting**
- • Initial Sponsor Group Ballot (D3.0)
- – Opened 15 November 2017
- – Closed on 15 December 2017
- 175 comments received from 20 reviewers
- – 3 comments withdrawn
- • Proposed responses prepared by editors and posted January 15, 2018

Key presentations in Geneva

- ERL (Effective return loss)
 - Rich Mellitz (Samtec)
 - This will be added to the next revision of the spec but the details need to be worked out
- TDEQ, SECQ, threshold and Rx sensitivity
 - Presentations and discussions from Finisar, Cisco, Intel and others
- 50G PAM4 VCSEL measurement results
 - Jonathan King (Finisar)
- Modification to COM parameters
 - Mike Dudek (Cavium)

Results of open optical issues

- Discussion on aligning 802.3cd with any changes in the 802.3cj Revision project with the inclusion of 802.3bs:
- 802.3bs will be rolled into 802.3cj Revision project for the D3.1 recirculation
 - This section will be in scope for comments against 802.3cj if comments were submitted to make changes based on .3cd changes.
- For changes already accepted into 802.3cd, it is probably appropriate to assume
- comments could (should) be submitted against 802.3cj. This would be the TDECQ precursor change and the SRS test change summarized in proposed in
- http://www.ieee802.org/3/cd/public/Jan18/king_3cd_03_0118.pdf and
- http://www.ieee802.org/3/cd/public/Jan18/king_3cd_04_0118.pdf .
- The work left ahead for 802.3cd (TDECQ adjustable thresholds and SRS additional tests) could be considered as comments into 802.3cj assuming there was strong consensus demonstrated through ad hocs etc before March Plenary

New study groups

- 100 Gb/s per Lane Electrical Study Group
 - [Consensus Presentation](#)
 - Intends to study AUI chip-to-chip and chip-to-module interfaces for existing PHYs, as well as 100 Gb/s per lane backplane and copper cable interfaces
- Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Study Group
 - [Consensus Presentation](#)
 - Intends to investigate new MMF PHYs over fewer fiber pairs than existing standards and projects (e.g., WDM over wideband/OM5 fiber)

Future IEEE 802.3 Meetings

Meeting	Location	Dates
IEEE 802.3 interim	Geneva, Switzerland	22-26 January 2018
IEEE 802 plenary	Rosemont, IL	4-9 March 2018
IEEE 802.3 interim	Pittsburgh, PA	21-25 May 2018
IEEE 802 plenary	San Diego, CA	9-12 July 2018
IEEE 802 interim	TBD	10-14 September 2018
IEEE 802 plenary	Bangkok, Thailand	12-15 November 2018

Upcoming meeting details at: <http://ieee802.org/3/interims/index.html>