

IEEE 802.3 Working Group Opening Plenary 9th July 2018

David Law
Chair, IEEE 802.3 Working Group
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Agenda, voter lists: <http://www.ieee802.org/3/minutes/jul18/index.html>

IEEE 802.3 Officers

IEEE 802.3 Chair: David Law <dlaw@hpe.com>

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@broadcom.com>

IEEE 802.3 Secretary: Pete Anslow <panslow@ciena.com>

IEEE 802.3 Executive Secretary: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Treasurer: Valerie Maguire <valerie_maguire@siemon.com>

IEEE 802.3 Task Force chairs

IEEE P802.3bt DTE Power via MDI over 4-Pair: Chad Jones <cmjones@cisco.com>

IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.com>

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane Cables: Dan Smith <daniel.f.smith@seagate.com>

IEEE P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model: Yan Zhuang <zhuangyan.zhuang@huawei.com>

IEEE P802.3cg 10 Mb/s Single Pair Ethernet: George Zimmerman <george@cmephyconsulting.com>

IEEE P802.3ch Multi-Gig Automotive Ethernet PHY: Steve Carlson <scarlson@ieee.org>

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Elizabeth Kochuparambil <edonnay@cisco.com>

IEEE P802.3cm 400 Gb/s over Multimode Fiber: Robert Lingle <rlingle@ofsoptics.com>

IEEE 802.3 Study Group chairs

IEEE 802.3 Beyond 10km Optical PHYs (acting): John D'Ambrosia <jdambrosia@ieee.org>

IEEE 802.3 Bidirectional 10 Gb/s and 25 Gb/s Optical Access PHYs Frank Effenberger <frank.effenberger@huawei.com>

Working Group Decorum



- An officer is permitted to make an audio or slideshow recording of this meeting exclusively for the purpose of generating minutes which shall not be copied or distributed. **IEEE 802.3 meetings do not use this option.** Recording of the proceedings by any other participant or observer, in part or in whole, via any means, is prohibited. (December 2017 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2017 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - **PCs HAVE BEEN STOLEN** at previous meetings
 - **DO NOT** assume that meeting areas are secure
- Please observe proper decorum in meetings

Agenda and Minutes

- Approve agenda
 - <http://www.ieee802.org/3/minutes/jul18/>
 - Any modifications, additions or deletions?
- Approve March 2018 plenary meeting and May 2018 interim meeting minutes
 - <http://www.ieee802.org/3/minutes/mar18/>
 - Published 26th March 2018
 - <http://www.ieee802.org/3/minutes/may18/>
 - Published 25th May 2018
 - Any corrections, modifications, additions?

Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides #1 through #4 of this presentation
- Advise the WG attendees that:
 - IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
 - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
 - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

Participants have a duty to inform the IEEE

- Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

Ways to inform IEEE

- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
- Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
- **Speak up now and respond to this Call for Potentially Essential Patents**

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

Other guidelines for IEEE WG meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed ... do formally object.

For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- **IEEE-SA Standards Board Bylaws**
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- **IEEE-SA Standards Board Operations Manual**
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at
<http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE-SA
Standards Board Patent Committee
Administrator at patcom@ieee.org**

Important Bylaws and Rules

- IEEE-SA Operations Manual
 - http://standards.ieee.org/develop/policies/sa_opman/
- IEEE-SA Standards Board Bylaws
 - <http://standards.ieee.org/develop/policies/bylaws/>
- IEEE-SA Standards Board Operations Manual
 - <http://standards.ieee.org/develop/policies/opman/>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures
 - <http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual
 - <http://www.ieee802.org/devdocs.shtml>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures
 - <http://www.ieee802.org/devdocs.shtml>
- IEEE 802.3 Working Group Operating Rules
 - http://ieee802.org/3/rules/P802_3_rules.pdf

Participation in IEEE 802 Meetings

Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1)
- IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)
- Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.
- Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

Interim meetings since March 2018

- 6th April 2018
 - IEEE P802.3 (IEEE 802.3cj) teleconference interim meeting
- 26th April 2018
 - IEEE P802.3 (IEEE 802.3cj) teleconference interim meeting
- 21st through 25th May 2018, Pittsburgh, PA
 - IEEE 802.3 interim meeting series
- 20th June 2018
 - IEEE P802.3bt teleconference interim meeting

Membership and attendance recording

Membership requirements

- Membership requirements (gaining and retaining)
 - 75% attendance at 2 of last 4 plenary sessions
 - A qualifying interim may be substituted for one plenary
 - Request to become member during potential voter agenda item at IEEE 802.3 opening or closing plenary
 - Participate in **two** out of the last **three** IEEE 802.3 Working Group ballots to retaining membership
 - Maintain valid contact information
 - Consistent declaration of affiliation

Membership and attendance recording

Meeting attendance tool procedures

Pete Anslow

IEEE 802.3 Working Group Secretary

panslow@ciena.com

Membership and attendance recording

Meeting attendance tool procedures

- The IEEE-SA Meeting Attendance Tool will be the basis of the official attendance record for this meeting: <http://imat.ieee.org>
- You need to login only once per meeting day
 - You are certifying that you are attending a "substantial" portion of that meeting day
- The server must be accessed the from the meeting network
 - You will probably have to disconnect your VPN software
- Check that your affiliation (slide 24) and employer (slide 25) are correct per presentation below
- Full details of how to record attendance are available at the URL below (this link was e-mailed to all registered participants prior to the meeting):

http://www.ieee802.org/3/minutes/jul18/0718_imat.pdf

Membership and attendance recording

Review of membership

- IEEE 802.3 voters
 - http://www.ieee802.org/3/minutes/jul18/0718_voters.pdf
- IEEE 802.3 voters in peril
 - http://www.ieee802.org/3/minutes/jul18/0718_peril.pdf
- IEEE 802.3 potential voters
 - http://www.ieee802.org/3/minutes/jul18/0718_potential.pdf

IEEE 802.3 Ethernet Working Group Treasury Report

Valerie Maguire, IEEE 802.3 Treasurer
The Siemon Company
San Diego, CA
July 9, 2018

IEEE 802.3 Ethernet Working Group Treasury Report, cont.

- Account balance
 - Opening Mar 2018 balance: \$ 16,346.96
 - Deposits: (0.00)
 - Interest paid: \$42.72
 - Debits: (0.00)
 - Closing Jun 2018 balance: \$16,389.68

Questions?

Thank you!

IEEE 802 Executive Committee report

- Treasury
 - Chicago: \$87K loss
 - San Diego: \$26K predicated loss
 - Bangkok: \$37K forecast surplus
 - 2018 reserve forecast change \$1.1M to \$1.0M
- IEEE 802 rules meetings
 - First meeting of a Study Group
 - Election of IEEE 802 EC vice-chair(s)

IEEE 802 Executive Committee report

Cross-IEEE 802 topics and IEEE 802 meetings

- Sunday
 - 19h30-21h30 LMSC Rules Review
- Monday
 - 19h30-21h30 IEEE 802.1 Network Enhancements for the Next Decade
- Tuesday
 - 13h30-15h30 IEEE 802/JTC1 Standing Committee
 - 19h30-21h30 IEEE 802.1 Network Enhancements for the Next Decade
- Thursday
 - 07h30-08h00 Next Venue Logistics
 - 08h00-09h00 Future Venues Ad Hoc
 - 08h00-09h00 IEEE 802/ITU Standing Committee
 - 09h00-10h00 IEEE 802 Chair's Open Office Hours
 - 10h30-12h30 IEEE 802 Task Force

IEEE 802 Executive Committee report

IEEE 802 Task Force draft agenda

- IEEE 802 Task Force
 - Thursday 10h30 to 12h30
- Tentative agenda
 - Open portion of meeting:
 - IEEE SA tools update & discussion, 30 min
 - Any other business, 5 min
 - Action item review, 5 min
 - Closed portion of meeting:
 - 11:00am: Network Service Provider status
 - Adjourn

IEEE 802 Tutorials

- None

Q&A session with Stephen Welby

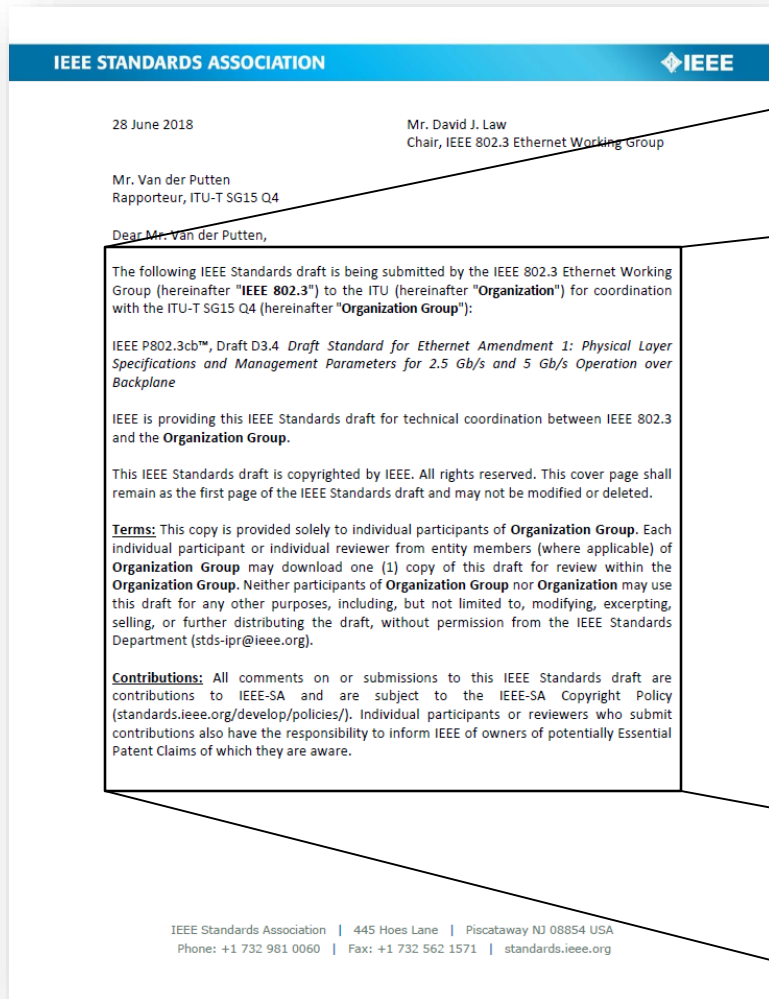
- Stephen Welby the new IEEE Executive Director and Chief Operating Officer will be attending the IEEE 802 plenary Monday, Tuesday and Wednesday
- Q&A session with Stephen Welby
 - Monday 18h30 to 19h30

Other IEEE 802 PARs under consideration this week

- Amendment project PAR
 - IEEE P802.1Qcz Congestion Isolation
 - IEEE P802.1Qdd Resource Allocation Protocol
- PAR Modification requests
 - IEEE P802.1Qcr Asynchronous Traffic Shaping PAR modification request
- PAR Extension request
 - IEEE P802.11ax High Efficiency WLAN PAR extension request

TIA TR-42 report

Liaisons – Draft sharing process changes since May



The following IEEE Standards draft is being submitted by the IEEE 802.3 Ethernet Working Group (hereinafter "IEEE 802.3") to the ITU (hereinafter "Organization") for coordination with the ITU-T SG15 Q4 (hereinafter "Organization Group"):

IEEE P802.3cb™, Draft D3.4 *Draft Standard for Ethernet Amendment 1: Physical Layer Specifications and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation over Backplane*

IEEE is providing this IEEE Standards draft for technical coordination between IEEE 802.3 and the **Organization Group**.

This IEEE Standards draft is copyrighted by IEEE. All rights reserved. This cover page shall remain as the first page of the IEEE Standards draft and may not be modified or deleted.

Terms: This copy is provided solely to individual participants of **Organization Group**. Each individual participant or individual reviewer from entity members (where applicable) of **Organization Group** may download one (1) copy of this draft for review within the **Organization Group**. Neither participants of **Organization Group** nor **Organization** may use this draft for any other purposes, including, but not limited to, modifying, excerpting, selling, or further distributing the draft, without permission from the IEEE Standards Department (stds-ipr@ieee.org).

Contributions: All comments on or submissions to this IEEE Standards draft are contributions to IEEE-SA and are subject to the IEEE-SA Copyright Policy (standards.ieee.org/develop/policies/). Individual participants or reviewers who submit contributions also have the responsibility to inform IEEE of owners of potentially Essential Patent Claims of which they are aware.

Liaisons (continued)

- External Liaison letters (new)
 - Broadband forum: EPON YANG model development liaison letter
 - IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model Definitions Task Force
 - Broadband forum: SIEPON YANG model development liaison letter
 - IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model Definitions Task Force
 - ITU-T SG15: Progress on G.698.2 liaison letter
 - IEEE 802.3 Beyond 10 km Optical PHYs Study Group
 - MIPI Alliance: Establishment of a liaison relationship liaison letter
 - IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force
 - OIF: 400ZR Interop project liaison letter and draft
 - IEEE 802.3 Beyond 10 km Optical PHYs Study Group

Assigned group or individual to review letter and make a recommendation at the IEEE 802.3 closing plenary if there should be a reply, and if so, propose a draft reply

Liaisons (continued)

- External Liaison letters (new, continued)
 - OIF: CEI-112G Project liaison letter and draft
 - IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force

Assigned group or individual to review letter and make a recommendation at the IEEE 802.3 closing plenary if there should be a reply, and if so, propose a draft reply

Continuing Agenda ...