

IEEE 802.3 Working Group Opening Plenary 12th November 2018

David Law
Chair, IEEE 802.3 Working Group
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Agenda, voter lists: <http://www.ieee802.org/3/minutes/nov18/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 P802.3cn 50Gb/s, 100Gb/s, 200Gb/s, and 400Gb/s over SMF and DWDM Task Force (acting): John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force (acting): Chad Jones <cmjones@cisco.com>

IEEE P802.3cr Isolation (Maintenance #14) Task Force (acting): Jon Lewis <jon_lewis@dell.com>

IEEE 802.3 Study Group chairs

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

IEEE 802.3 Ethernet Access PMDs for Central Office Consolidation (Super-PON): Claudio DeSanti <cdssdc@google.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. (June 2018 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (June 2018 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/nov18/>
 - Any modifications, additions or deletions?
- Approve July 2018 plenary meeting and September 2018 interim meeting minutes
 - <http://www.ieee802.org/3/minutes/jul18/>
 - Published 20th July 2018
 - <http://www.ieee802.org/3/minutes/sep18/>
 - Published 15th September 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
 - <https://standards.ieee.org/about/policies/sa-opman/>
- IEEE-SA Standards Board Bylaws
 - <https://standards.ieee.org/about/policies/bylaws/>
- IEEE-SA Standards Board Operations Manual
 - <https://standards.ieee.org/about/policies/opman/>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures
 - <https://ieee.app.box.com/v/PandP-LMSC>
- 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 July 2018

- 13th August 2018
 - IEEE P802.3bt teleconference interim meeting
- 10th through 14th September 2018, Spokane, WA, USA
 - IEEE 802.3 interim meeting series
- 9th October 2018
 - IEEE P802.3cd 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/nov18/1118_imat.pdf

Membership and attendance recording

Review of membership

- IEEE 802.3 voters
 - http://www.ieee802.org/3/minutes/nov18/1118_voters.pdf
- IEEE 802.3 voters in peril
 - http://www.ieee802.org/3/minutes/nov18/1118_peril.pdf
- IEEE 802.3 potential voters
 - http://www.ieee802.org/3/minutes/nov18/1118_potential.pdf

IEEE 802.3 Ethernet Working Group Treasury Report

Valerie Maguire, IEEE 802.3 Treasurer
The Siemon Company
Bangkok, Thailand
November 12, 2018

IEEE 802.3 Ethernet Working Group Treasury Report, cont.

- Account balance
 - Opening Jul 2018 balance: \$16,389.68
 - Deposits: (0.00)
 - Interest paid: \$54.71
 - Debits: (0.00)
 - Closing Oct 2018 balance: \$16,444.39

Questions?

Thank you!

IEEE 802 Executive Committee report

- Treasury
 - July 2018: 13K surplus
 - November 2018 estimate: 31K surplus
 - Reserve estimate: \$1.5M surplus at end of 2018
- IEEE 802 rules meetings
 - Updating IEEE 802 Sponsor P&P
 - Executive Committee -> Sponsor

IEEE 802 Executive Committee report

Cross-IEEE 802 topics and IEEE 802 meetings

Monday	Notes
18:00-19:20 Tera Hertz Communications Tutorial	Thai Chitlada 1 2 nd floor
19:30-20:50 Tutorial #2: The new LMSC P&P,WG P&P & how to take good minutes	Thai Chitlada 1 2 nd floor
21:00-22:30 Tutorial 3: none/open	
Tuesday	
13:30-15:30 802/JTC1 Standing Committee, Myles	Apartment 1 9 th floor
13:30-15:30 802/IETF Standing Committee, Stanley	
19:30-21:30 802 Network Enhancements for the Next Decade, Marks	Pavilion 1/2 4 th floor
Wednesday	
18:30-21:30 Social Reception	Off Site
Thursday	
07:30-08:00 Next Venue Logistics, Rosdahl	Apartment 1 9 th floor
08:00-09:00 Future Venues Ad Hoc, Rosdahl	
09:00-10:00 802 Chair's Open Office Hours, Nikolich	
08:00-09:00 802/ITU Standing Committee, Parsons	Apartment 3 9 th floor

IEEE 802 Executive Committee report

IEEE 802 Task Force draft agenda

802 Task Force Thurs 10:30AM-12:30

Tentative agenda

1. Open portion of meeting:

1. IEEE SA tools update & discussion, 10 min; Marks or Law
2. Web conferencing service alternative(s) discussion, 10 min; Law
3. (Possible) update on availability of Get program Terms and Conditions, 5 min; Law
4. Identify process to resolve broken links due to SA website reconfig?, tbd min; tbd
5. Any other business, 5 min, all?
6. Action item review, 5 min, Nikolich

2. Closed portion of meeting:

1. To be determined

3. Adjourn

IEEE 802 Tutorials

- Tutorial #1 (Monday 18:00 to 19:20)
- THz communications
 - This tutorial will provide a brief overview on the current status of the development of THz Communication systems focusing on ongoing research activities such as the European Horizon 2020 framework, and provide an overview of the ongoing WRC 2019 preparations, as well as discussing the potential for IEEE 802 to play a major role in this interesting frequency range
- Tutorial #2 (Monday 19:30 to 20:50)
- The new LMSC P&P, WG P&P and how to take good minutes
 - The new Sponsor Policies and Procedures and Working Group Policies and Procedures will have some changes in the operation of the Working Groups as well as new requirements for volunteers who take minutes during our meeting. We will present the key procedure changes from the new P&P. In addition, we will cover the requirements for taking minutes and provide examples of good minutes and bad minutes.

Other IEEE 802 PARs under consideration this week

- New standards PARs:
 - IEEE P802.1DF Time-Sensitive Networking Profile for Service Provider Networks
 - IEEE P802.1DG Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet
- New Recommended Practice PAR:
 - IEEE P802.19 Coexistence Methods for Sub-1 GHz Frequency Bands
- Amendment project PARs:
 - IEEE P802.1CMde Enhancements for Fronthaul Interface and Synchronization
 - IEEE P802.11bc Enhanced Broadcast Service (eBCS)
 - IEEE P802.11bd Next Generation V2X
- PAR Extension requests:
 - IEEE P802.22 Cognitive Radio Wireless Regional Area Networks (WRAN) MAC and PHY
 - IEEE P802.22.3 Spectrum Characterization and Occupancy Sensing

ISO/IEC SC25/WG3 Liaisons report

TIA TR-42 Liaisons report

Liaison letters

- External Liaison letters (new)
 - COBO: Specification availability liaison letter
 - IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force
 - ISO/IEC JTC1/SC25: Appointment of liaison officer to IEEE 802.3
 - Covered in ISO/IEC SC25/WG3 Liaisons report - updated
 - ITU JCA-IMT2020: Invitation to update the IMT2020 roadmap
 - Defer until the January 2019 interim, next ITU JCA-IMT2020 in March 2019
 - ITU-T SG15: ANT Standards Overview and Work Plan liaison letter
 - ITU-T SG15: HNT Standards Overview and Work Plan liaison letter
 - ITU-T SG15: ANT and HNT documents liaison letter
 - Defer until the IEEE 802.3 meeting immediately prior to the next ITU-T SG15 meeting

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

Liaison letters (continued)

- External Liaison letters (new, continued)
 - ITU-T SG15: IEEE 802.3cb 2.5 Gb/s specification liaison letter
 - IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force
 - ITU-T SG15: Work on G.709.3 and G.698.2 liaison letter
 - IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over Single-Mode Fiber and DWDM Task Force
 - ITU-T SG15: Coordination of Ethernet information and data modelling work liaison letter
 - IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model Definitions Task Force - updated
 - MEF to IEEE 802.3 on MEF 63 and operator L1 service attributes
 - IEEE 802.3 Maintenance 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

Liaison letters (continued)

- External Liaison letters (new, continued)
 - OIF: 400ZR Interop Project liaison letter and attachment
 - IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over Single-Mode Fiber and DWDM 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 ...