

IEEE 802.3 Working Group Opening Plenary 5th March 2018

David Law
Chair, IEEE 802.3 Working Group
dlaw@hpe.com

Agenda, voter lists:

<http://www.ieee802.org/3/minutes/mar18/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 P802.3bs 200 Gb/s and 400 Gb/s Ethernet: John D'Ambrosia <jdambrosia@ieee.org>

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: Dan Smith <daniel.f.smith@seagate.com>

IEEE P802.3cc 25 Gb/s Ethernet over Single-Mode Fiber: David Lewis <David.Lewis@lumentum.com>

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

IEEE 802.3.2 (IEEE 802.3cf) YANG Data Model: Yan Zhuang <zhuangyan.zhuang@huawei.com>

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

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

IEEE 802.3 Study Group chairs

IEEE 802.3 10Mb/s Backplane Ethernet: Jon Lewis <jon.lewis@dell.com>

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

IEEE 802.3 100 Gb/s per Lane Electrical: Elizabeth Kochuparambil <edonnay@cisco.com>

IEEE 802.3 Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Robert Lingle: <rlingle@ofsoptics.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/mar18/>
 - Any modifications, additions or deletions?
- Approve November 2017 plenary meeting and January 2018 interim meeting minutes
 - <http://www.ieee802.org/3/minutes/nov17/>
 - Published 14th November 2017
 - <http://www.ieee802.org/3/minutes/jan18/>
 - Published 6th February 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 November 2017

- 18th December 2017 teleconference interim meeting
 - IEEE P802.3cb interim meeting
- 22nd through 26th January 2018, Geneva, CH
 - IEEE 802.3 interim meeting series

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 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/mar18/0318_imat.pdf

Membership and attendance recording

Review of membership

- IEEE 802.3 voters

http://www.ieee802.org/3/minutes/mar18/0318_voters.pdf

- IEEE 802.3 voters in peril

http://www.ieee802.org/3/minutes/mar18/0318_peril.pdf

- IEEE 802.3 potential voters

http://www.ieee802.org/3/minutes/mar18/0318_potential.pdf

IEEE 802.3 Ethernet Working Group Treasury Report

Valerie Maguire, IEEE 802.3 Treasurer
The Siemon Company
Rosemont, IL
March 5, 2018

IEEE 802.3 Ethernet Working Group Treasury Report

- IEEE 802.3 funds are deposited in a Wells Fargo Concentration Banking account supported by NetSuite online Accounting
- Automated 2017 tax filing
 - NetSuite online Accounting tool
 - Opening 2017 balance: \$21,569.79
 - Deposits: (0.00)
 - Interest paid: 62.61
 - Debits: (5,333.50)
 - Closing 2017 balance: \$16,328.24

IEEE 802.3 Ethernet Working Group Treasury Report, cont.

- Account balance
 - Opening Nov 2017 balance: \$16,311.90
 - Deposits: (0.00)
 - Interest paid: 35.06
 - Debits: (0.00)
 - Closing Feb 2018 balance: \$16,346.96

Questions?

Thank you!

IEEE 802 Executive Committee report

- Elections
 - Paul Nickolich is standing for re-election
 - Paul proposes to make the following appointments if re-elected
 - 1st Vice-chair: James Gilb
 - 2nd Vice-chair: Roger Marks
 - Recording Secretary: John D'Ambrosia
 - Treasurer: George Zimmerman
 - Executive Secretary: Jon Rosdahl
 - Member Emeritus: Geoff Thompson
 - Hibernating Working Group IEEE 802.20 Chair: Radhakrishna Canchi
 - Hibernating Working Group IEEE 802.16 Chair: Roger Marks
 - Pending an affirmative vote to hibernate the IEEE 802.16 Working Group
- IEEE 802.3 elections
 - Nominations close at end of this opening plenary

IEEE 802 Executive Committee report (con't)

- Treasury
 - Orlando: \$24K loss
 - Chicago projected: \$31K loss
 - 2017 reserves change from \$1635 K to \$1440 K
- IEEE 802 rules meetings
 - Public statements
 - Security and Privacy considerations
 - Proposed additional project process requirements item
 - Security and Privacy consideration
Describe the implications of the security and privacy of the standard under development
 - IEEE 802 LMSC Operations Manual
 - 4.3.2 Voting at study group meetings

IEEE 802 Executive Committee report

Cross-IEEE 802 topics and IEEE 802 meetings

- 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, 15 min, Roger Marks
 - Any other business, 5 min, all?
 - Action item review, 5 min, Nikolich
 - Closed portion of meeting:
 - (Time specific: 11:00-noon)
IEEE Legal update, IEEE counsel via phone
 - Adjourn

IEEE 802 Tutorials

- None

Other IEEE 802 PARs under consideration this week

- New standard PAR:
 - IEEE P802.1DC Quality of Service Provision by Network Systems
 - IEEE P60802 Time-Sensitive Networking Profile for Industrial Automation
- Amendment project PAR:
 - IEEE P802.1CBcv Frame Replication and Elimination for Reliability Amendment: Information Model, YANG Data Model and Management Information Base Module
 - IEEE P802.1CBdb Frame Replication and Elimination for Reliability Amendment: Extended Stream Identification Functions
 - IEEE P802.1Qcz Bridges and Bridged Networks Amendment: Congestion Isolation
 - IEEE P802.11bb Light Communications
 - IEEE P802.15.4w Low Power Wide Area (LPWA)
 - IEEE P802.15.4x: Field Area Network Enhancements (FANE)
 - IEEE P802.15.4y Security Next Generation (SECN)
 - IEEE P802.15.4z Enhanced IR-UWB Ranging (EIR)
- PAR Modification requests:
 - IEEE P802.22.2 Spectrum Characterization and Occupancy Sensing

Liaisons

- External Liaison letters (new)
 - ISO/IEC JTC1 SC25 WG3
 - IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force
 - ITU-T SG15: ANT Standards Overview and Work Plan
 - ITU-T SG15: HNT Standards Overview and Work Plan
 - ITU-T SG15: OTNT standardization work plan
 - ITU-T SG15: ANT and HNT documents
 - Since the next ITU SG15 meeting takes place from 8th to 19th October 2018 therefore wait until the September 2018 IEEE 802.3 interim meet to reply. This will ensure we provide the most up to date information to ITU-T SG15
 - ITU-T SG15: High speed optical access (PON)
 - IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Ethernet Passive Optical Networks Task Force
 - ITU-T SG15: Coherent 100 Gb/s DWDM interfaces
 - IEEE 802.3 Beyond 10km 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)
 - ITU-T SG15: Coordination of IM & DM for OAM
 - IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model Definitions Task Force
 - ITU-T SG15: Initiation of approval process for G.8013/Y.1731 (2015) Corrigendum 1, revised G.8021/Y.1341, and new G.8023
 - TBD
 - ITU-T SG15: Timing performance of Ethernet PHYs
 - Thank you letter for previous liaison response, no response required
 - TIA TR42 to IEEE 802.3 on single balanced pair topics
 - IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet 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

Liaisons (continued)

- External Liaison letters (old)
 - ITU-T SG5: Ethernet port isolation
 - IEEE 802.3 Isolation Ad Hoc
 - OIF: 400ZR Interop Project liaison letter
 - IEEE 802.3 Beyond 10km Optical PHYs Study Group
 - OIF: CEI-112G Project Scopes & Objectives liaison letter
 - OIF: Progress on OIF CEI-56G project liaison letter
 - IEEE P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet 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 ...