

IEEE 802.3 Working Group Opening Plenary 14th March 2016

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Agenda, voter lists:
<http://www.ieee802.org/3/minutes/mar16/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 P802.3bn EPON Protocol over Coax (EPoC): Mark Laubach <laubach@broadcom.com>

IEEE P802.3bp 1000BASE-T1: Steve Carlson <scarlson@hspdesign.com>

IEEE P802.3bq 25G/40GBASE-T: Dave Chalupsky <david.chalupsky@intel.com>

IEEE P802.3br Interspersing Express Traffic: Ludwig Winkel <ludwig.winkel@siemens.com>

IEEE P802.3bs 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 P802.3bu 1-Pair Power over Data Lines (PoDL): Dan Dove <dan_dove@ieee.org>

IEEE P802.3bv Gigabit Ethernet Over Plastic Optical Fiber: Bob Grow <bob.grow@ieee.org>

IEEE P802.3by 25 Gb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE P802.3bz 2.5G/5GBASE-T: Dave Chalupsky <david.chalupsky@intel.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 and Copper Cables: Yong Kim <ybkim@broadcom.com>

IEEE 802.3 Study Group chairs

IEEE 802.3 50 Gb/s, next generation 100 Gb/s and 200 Gb/s Ethernet Study Group: Mark Nowell <mnowell@cisco.com>

IEEE 802.3 200 Gb/s Ethernet single-mode Study Group: Mark Nowell <mnowell@cisco.com>

IEEE 802.3 25 Gb/s Ethernet PMD(s) for Single Mode Fiber: David Lewis <David.Lewis@lumentum.com>

WG Decorum



- Photography or recording by permission only (December 2015 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 2015 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/mar16/>
 - Any modifications, additions or deletions?
- Approve November 2015 plenary meeting and January 2016 interim meeting minutes
 - <http://www.ieee802.org/3/minutes/nov15/>
 - Published 20th November 2015
 - <http://www.ieee802.org/3/minutes/jan16/>
 - Published 1st February 2016
 - 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:**
 - The 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 the IEEE is not aware. Additionally, neither the 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, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
 - **“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**
 - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**

Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards 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 or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>



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:
 - Either speak up now 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
 - Cause an LOA to be submitted

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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
 - Technical considerations remain 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.**

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.

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

Interim meetings since November 2015

- 10th December 2015, Santa Clara, CA, USA
 - IEEE P802.3bp 1000BASE-T1 Task Force
- 10th December 2015, San Francisco, CA, USA
 - IEEE P802.3br Interspersing Express Traffic Task Force
- 11th December 2015, Santa Clara, CA, USA
 - IEEE P802.3bq 25G/40GBASE-T Task Force
- 16th and 17th December 2015, Piscataway, NJ, USA
 - IEEE P802.3bn EPON protocol over Coax (EPoC)
- 18th through 22nd January 2016, Atlanta, GA, USA
 - IEEE 802.3 interim meeting series
- 25th and 26th February 2016, Piscataway, NJ, USA
 - IEEE P802.3bn EPON protocol over Coax (EPoC)
- 25th February 2016, Santa Clara, CA, USA
 - IEEE P802.3bp 1000BASE-T1 Task Force

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

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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/mar16/0316_imat.pdf

Membership and attendance recording

Review of membership

- IEEE 802.3 voters

http://www.ieee802.org/3/minutes/mar16/0316_voters.pdf

- IEEE 802.3 voters in peril

http://www.ieee802.org/3/minutes/mar16/0316_peril.pdf

- IEEE 802.3 potential voters

http://www.ieee802.org/3/minutes/mar16/0316_potential.pdf

IEEE 802 Executive Committee report (p.1)

- Elections

- Paul Nickolich is standing for re-election
- Paul proposes no changes to appointed positions if re-elected
 - 1st Vice-chair: Pat Thaler
 - 2nd Vice-chair: James Gilb
 - Recording Secretary: John D'Ambrosia
 - Treasurer: Clint Chaplin
 - Executive Secretary: Jon Rosdahl
 - Member Emeritus: Geoff Thompson
 - Hibernating Working Group IEEE 802.17 Chair: John Lemon
 - Hibernating Working Group IEEE 802.20 Chair: Radhakrishna Canchi

- IEEE 802.3 elections

- Nominations close at end of this opening plenary

- Other items

- Treasury
 - Dallas surplus \$48K, Atlanta surplus estimate \$102K, Macau projected loss \$151
 - Current reserves of ~\$1.3M

IEEE 802 Executive Committee report (p.2)

Meeting for the week

Sunday 19:30-21:30 (tentative)	LMSC Rules Review (Milan 2101 AB)
Mon 8:00-10:00	Opening Executive Committee meeting (Sicily 2403)
Mon afternoon	open
Mon 18:00-22:00	no tutorials this session
Mon 19:30-21:30	5G/IMT2020 Standing Cmte (Florence 2202)
Tue 8:00am-8:30 (tentative)	802/IETF Standing Committee (Milan 2101)
Tue 13:30-15:30	802/JTC1/SC6 Standing Committee (Sicily 2402)
Tue 16:00-18:00	open
Tue 19:30-21:30	5G/IMT2020 Standing Cmte (Florence 2202)
Wed 8:00-9:00	802/ITU Standing Committee (Sciliy 2401)
Wed 13:30-17:00	open
Thu 7:00-8:00	Plenary venue space allocation planning (Milan 2101)
Thu 8:00-9:00	Future venue planning (Milan 2101)
Thu 9:00-10:00	802 Chair's Open Office hour (Milan 2101)
Thu 10:30-12:30pm	IEEE 802 Task Force (Milan 2010)
Thu 13:30-15:30 (tentative)	802/JTC1/SC6 Standing Committee (Bryan-Beeman A)
Thu 16:00-18:00pm	open
Fri 08am-noon	open
Fri 01pm-06pm	closing Executive Committee meeting (Sicily 2403)

IEEE 802 Executive Committee report (p.3)

IEEE 802 Task Force draft agenda

802 Task Force Thurs 10:30AM-12:30 (room: Milan 2101 AB)

Tentative agenda

1. Open portion of meeting:
 1. Clarification of Indemnification Policy update, 10 min, Nikolich
 2. IEEE SA staff update, 15 min, tbd
 3. Any other business?
 4. Action item review, 5 min, Nikolich
2. Closed portion of meeting:
 1. Indemnification Policy discussion, 20 min, Nikolich
3. Adjourn

IEEE 802 Tutorials

- None

Review other IEEE 802 PARs

Liaison letters

Liaison letters

- External Liaison letters (new)
 - ISO/IEC JTC1/SC25/WG3 Liaison on 2.5G/5GBASE-T
 - Assigned to IEEE P802.3bz Task Force
 - ISO/IEC JTC1/SC25/WG3 Liaison on 25GBASE-T
 - Assigned to IEEE P802.3bq Task Force
 - ISO/IEC JTC1/SC25/WG3 Liaison on PoF
 - Assigned to IEEE P802.3bv Task Force
 - ISO/IEC JTC1/SC25/WG3 Liaison on Remote Powering
 - Assigned to IEEE P802.3bt Task Force
 - ITU-T SG9: Draft new Recommendation ITU-T J.196.1 (J.HiNoC2-req), ITU-T J.195.1 (J.HiNoC-req) & ITU-T J.223.1 (J.C-DOCSIS-req)
 - Assigned to IEEE P802.3bn Task Force

Assigned group 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: Access Network Transport (ANT) standardization work plan
 - ITU-T SG15: Home Network Transport (HNT) standardization work plan
 - ITU-T SG15: Optical Transport Networks & Technologies (OTNT) standardization work plan
 - ITU-T SG15: Reply on ANT and HNT standardization work plans
 - Next ITU-T SG15 plenary on 19th September 2016 so no need to generate a response to work plan liaison letters from this meeting
 - OIF: Flex Ethernet Implementation Agreement liaison letter
 - Assigned to IEEE P802.3bs Task Force

Assigned group 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)
 - TIA TR42: TR-42 Liaison to IEEE 802 re ANSI/TIA-PN-1005-A-3
 - Assigned to IEEE P802.3bp Task Force
- External Liaison letters (old)
 - ITU-T SG5: ITU Resistibility - Ethernet application testing updates
 - Assigned to an Ad hoc Chaired by Steve Carlson
 - ITU-T SG15: Timestamping point for multilane Ethernet interfaces
 - Assigned to IEEE 802.3 Maintenance Task Force

Assigned group 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, information item)
 - ISO/IEC JTC1/SC25/WG3 Liaison to IEEE 802.11
 - TIA TR42: TSB-184-A Guidelines for Supporting Power Delivery Over Balanced Twisted-Pair Cabling draft 5.1
 - TIA TR42: TSB-5021 Guidelines for the Assessment and Mitigation of Installed Cabling to Support 2.5GBASE-T and 5GBASE-T draft 0.6b

IEEE 802.3 was copied on these letters, no action required.

Liaison letters (continued)

- Internal Liaison
 - IEEE 802 5G standing committee
 - Assigned to an Ad hoc, need to appoint Chair

Continuing Agenda ...