IEEE 802.3 Working Group
Opening Plenary
11th November 2019

David Law

Chair, IEEE 802.3 Working Group

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Agenda, voter lists: http://www.ieee802.org/3/minutes/nov19/index.html

IEEE 802.3 Officers, Subgroup Chairs and Vice-Chairs

IEEE 802.3 Chair: David Law <dlaw@hpe.com>
IEEE 802.3 Vice Chair: Adam Healey <adam.healey@broadcom.com>
IEEE 802.3 Secretary: Jon Lewis <jon.lewis@dell.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 P802.3ca 25 Gb/s and 50 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.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 P802.3cp Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs: Frank Effenberger <frank.effenberger@huawei.com>
IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force: Chad Jones <cmjones@cisco.com>
IEEE P802.3cr Isolation (Maintenance #14) Task Force: Jon Lewis <jon.lewis@dell.com>
IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON): Claudio DeSanti <cdssdc@google.com>
IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems: John D'Ambrosia <jdambrosia@ieee.org>
IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength: Mark Nowell <mnowell@cisco.com>
IEEE P802.3cv Power over Ethernet (Maintenance #15) Task Force: Chad Jones <cmjones@cisco.com>
IEEE 802.3 Task Force vice-chairs
IEEE P802.3ca 25 Gb/s and 50 Gb/s EPON: Glen Kramer <glen.kramer@broadcom.com>
IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted <kent.c.lusted@intel.com>
IEEE 802.3 Study Group chairs
IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson <scarlson@ieee.org>
IEEE 802.3 Multi Gigabit Automotive PHYs Optical Study Group: Bob Grow <bob.grow@ieee.org>
IEEE 802.3 Improving PTP Timestamping Accuracy on Ethernet Interfaces Study Group: Steve Gorshe <steve.gorshe@microchip.com>
IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements Study Group: Chad Jones <cmjones@cisco.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. (January 2019 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (January 2019 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/nov19/
  - Any modifications, additions or deletions?

- Approve July 2019 plenary meeting and September 2019 interim meeting minutes
  - http://www.ieee802.org/3/minutes/jul19/
    - Published 29th July 2019
  - http://www.ieee802.org/3/minutes/sep19/
    - Published 17th September 2019
  - 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.

◆IEEE

(Optional to be shown)

Participants have a duty to inform the IEEE

- Participants <u>shall</u> 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 <u>should</u> 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

◆IEEE

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

◆IEEE

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

INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

At the beginning of each standards development meeting the chair or a designee is to:

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).

IEEE SA STANDARDS ASSOCIATION

IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.

- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.

- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

IEEE SA STANDARDS ASSOCIATION   ◈IEEE   3

IEEE SA COPYRIGHT POLICY

■ The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual

- IEEE SA Copyright Policy, see
  Clause 7 of the IEEE SA Standards Board Bylaws
  https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7
  Clause 6.1 of the IEEE SA Standards Board Operations Manual
  https://standards.ieee.org/about/policies/opman/sect6.html

■ IEEE SA Copyright Permission
- https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip

■ IEEE SA Copyright FAQs
- http://standards.ieee.org/faqs/copyrights.html/

■ IEEE SA Best Practices for IEEE Standards Development
- http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf

■ Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
- https://standards.ieee.org/about/policies/opman/sect6.html

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)

Face to Face interim meetings since July 2019

- 14th through 15th August 2019, Milwaukee, WI USA
  - IEEE P802.3cg interim meeting
- 9th through 13th September 2019, Indianapolis, IN, USA
  - 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

Jon Lewis

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/nov19/1119_imat.pdf

Membership and attendance recording
Review of membership

- IEEE 802.3 voters
  - http://www.ieee802.org/3/minutes/nov19/1119_voters.pdf
- IEEE 802.3 voters in peril
  - http://www.ieee802.org/3/minutes/nov19/1119_peril.pdf
- IEEE 802.3 potential voters
  - http://www.ieee802.org/3/minutes/nov19/1119_potential.pdf

IEEE 802.3 Ethernet Working Group Treasury Report

Valerie Maguire, IEEE 802.3 Treasurer

The Siemon Company

Waikoloa, HI

November 11, 2019

IEEE 802.3 Ethernet Working Group Treasury Report, cont.

- Account balance
  - Opening Jul 2019 balance: $16,371.06
  - Deposits: (0.00)
  - Interest paid: $73.58
  - Debits: (0.00)
  - Closing Oct 2019 balance: $16,444.64

Questions?

Thank you!

IEEE 802 Executive Committee report

- Treasury
  - TBD
- IEEE 802 rules meeting
  - TBD
- Other items

IEEE 802 Executive Committee report
Cross-IEEE 802 topics and IEEE 802 meetings

Sun 19:30-21:30   LMSC Rules Review

Mon 08:00-10:00   Opening Executive Committee meeting
Mon 09:00-10:00   Newcomer's Orientation

Tue 07:00-13:30   open
Tue 13:30-15:30   802/JTC1/SC6 Standing Committee
Tue 13:30-15:30   802/IETF Standing Committee
Tue 16:00-18:00   802/ITU Standing Committee

Thu 07:30-08:00   Next plenary venue space allocation planning
Thu 08:00-09:00   Future venue planning
Thu 09:00-10:00   802 Chair's Open Office hour
Thu 10:30-12:30   IEEE 802 EC Discussion Topics
Thu 16:00-18:00   open

Fri 08:00-10:00   open
Fri 10:00-12:00   closing EC agenda prep
Fri 13:00-18:00   closing Executive Committee meeting

IEEE 802/IEEE SA Task Force

- IEEE 802/IEEE SA Task Force

  Tentative date for a web meeting – sometime in December

  Tentative agenda
  1. Open portion of meeting:
     1. Reschedule 802/SA Task Force meeting to mutually acceptable day/time, most likely will be a web conference due to schedule/availability difficulties
     2. IEEE SA tools update & discussion,
     3. Bulk Framemaker license discussion
     4. Any other business, 5 min, all?
     5. Action item review, 5 min, Nikolich
  2. Closed portion of meeting: none
  3. Adjourn

- Repurpose the Thursday 10-noon timeslot: 802 EC discussion topics
  1. Participation requirements
  2. Copyright policy
  3. Other?

IEEE 802 Tutorials

- None
  - The tutorial that was announced has been cancelled

Other IEEE 802 PARs and ICAIDs under consideration this week

- Amendment project PARs
  - IEEE P802f: YANG Data Model for EtherTypes
  - IEEE P802.1AEdk: MAC Privacy protection
  - IEEE P802.15.7a: High Data Rate Optical Camera Communications
  - IEEE P802.16t: Fixed and Mobile Wireless Access in Channel Bandwidth up to 100 kHz
- PAR Modification requests:
  - IEEE P802.1CS: Link-local Registration Protocol

Liaisons

Annual review of IEEE 802.3 Working Group draft sharing for coordination list

- Context
  - The 'IEEE-SA liaison organization guidelines for the provision of draft IEEE standards' includes the text '… the Chair is responsible for reviewing the relationship annually with the Sponsor or Working Group to ensure that it continues to be productive.'.

- Current list
  - Broadband Forum, Fiber Access Networks Working Area
  - COBO, Data Center Networking Working Group
  - Ethernet Alliance, Power Over Ethernet subcommittee
  - ETSI, Technical Committee (TC) Access, Terminals, Transmission and Multiplexing (ATTM)
  - IBTA, Electro-Mechanical Working Group
  - INCITS, T11.2 Working Group
  - ISO/IEC JTC1/SC25/WG3 Interconnection of information technology equipment
  - ISO/IEC JTC1/SC6 Telecommunications and information exchange between systems
  - ITU-T, SG15 Transport, Access and Home
  - MIPI Alliance, Automotive Working Group
  - ODVA, Physical Layer SIG for EtherNet/IP and ODVA System Architecture SIG
  - OIF, Physical Link Layer (PLL) Working Group

Liaison letters

- External Liaison letters (new)
  - ISO/IEC JTC 1/SC 25/WG 3: ISO/IEC TR 11801-9906
    - George Zimmerman
  - ISO/IEC JTC 1/SC 25/WG 3: Remote powering
    - IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements Study Group
  - ITU JCA-IMT2020: Invitation to update IMT2020 roadmap
    - Defer until January 2020 IEEE 802.3 interim meeting series
  - ITU-T SG15: OTNT Standardization Work Plan
    - Defer until January 2020 IEEE 802.3 interim meeting series
  - ITU-T SG15: Coordination of Ethernet information and data modelling
    - No response need, sent to IEEE 802.1, copied to IEEE 802.3

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: 100 Gbit/s and 400 Gbit/s DWDM issues
    - IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force
  - OIF: CEI-112G-VSR and CEI-112G-LR projects
    - IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force
  - OIF: 400ZR Interop project
    - IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force

Continuing Agenda ...