IEEE 802.3 Working Group Opening Plenary
13th March 2017

David Law

Chair, IEEE 802.3 Working Group

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Agenda, voter lists:
http://www.ieee802.org/3/minutes/mar17/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 Cables: 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 802.3 Study Group chairs

IEEE 802.3 Multi-Gig Automotive Ethernet PHY: Steve Carlson <scarlson@ieee.org>

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/mar17/
  - Any modifications, additions or deletions?

- Approve November 2016 plenary meeting and January 2017 interim meeting minutes
  - http://www.ieee802.org/3/minutes/nov16/
    - Published 21st November 2016
  - http://www.ieee802.org/3/minutes/jan17/
    - Published 24th January 2017
  - 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.

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(Optional to be shown)

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**

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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**

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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

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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.

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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

All participation in IEEE 802 Working Group meetings 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". (http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf section 4.2.1)**

- **You have an obligation to act and vote as an individual and not under the direction of any other individual or group. Your obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**

- **You 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 http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf section 3.4.1, 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.

Interim meetings since November 2016

- 7th December 2016, Regensburg, Germany
  - IEEE P802.3bv Gigabit Ethernet Over Plastic Optical Fiber Task Force interim
- 9th through 13th January 2017, Huntington Beach, CA, USA
  - IEEE 802.3 interim meeting series
- 15th February 2017, San Jose, CA, USA
  - IEEE P802.3cc 25 Gb/s Ethernet over Single-Mode Fiber Task Force interim
- 21st and 22nd February 2017, Warren, MI, USA
  - IEEE 802.3 Multi-Gig Automotive Ethernet PHY Study Group Interim
- 24th February, 2017, Longmont, CO, USA
  - IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane and Copper Cables Task Force interim

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/nov16/1116_imat.pdf

Membership and attendance recording
Review of membership

- IEEE 802.3 voters

  http://www.ieee802.org/3/minutes/mar17/0317_voters.pdf

- IEEE 802.3 voters in peril

  http://www.ieee802.org/3/minutes/mar17/0317_peril.pdf

- IEEE 802.3 potential voters

  http://www.ieee802.org/3/minutes/mar17/0317_potential.pdf

IEEE 802.3 Ethernet Working Group Treasury Report

IEEE 802 Executive Committee report

- ## Treasury current ~$1.6M
  - 2016 net worth increase ~$330K
  - 2017 estimated net worth decrease ~$218K

IEEE 802 Executive Committee report Cross-IEEE 802 topics (provisional)

Monday	Notes
18:30-19:20 The impact of US travel restrictions on venue selection, Thompson	Regency CD 3rd flr
19:30-20:50 An Introduction to 802.11's Latest Standards Activities, Stephens	Regency CD 3rd flr
Tuesday	
13:30-15:30 802/JTC1 Standing Committee, Myles	Room: Oxford 3rd flr
13:30-15:30 802/IETF Standing Committee, Thaler	Room: Oxford 3rd flr
Wednesday	
08:00-09:00 802/ITU Standing Committee, Parsons	Room: Oxford 3rd flr
19:00-21:30 Social Reception	Pacific Ballroom
Thursday	
07:00-08:00 Next Venue Logistics, Rosdahl **08:00-09:00 Future Venues Ad Hoc, Roshdal** **09:00-10:00 802 Chair's Open Office Hours, Nikolich**	Room: Oxford 3rd flr
13:30-15:30 802/JTC1 Standing Committee, Myles	Room: Oxford 3rd flr
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IEEE 802 Executive Committee report Meeting for the week (provisional)

Sunday 19:30-21:30   LMSC Rules Review

Mon 08:00-10:00   Opening Executive Committee meeting
Mon 18:30-19:20   Open discussion: impact of US travel restrictions on venue
Mon 19:30-20:50   Tutorial: An Introduction to 802.11's Latest Stds Activities

Tue 07:00-09:00   open
Tue 13:30-15:30   802/JTC1/SC6 Standing Committee
Tue 13:30-15:30   802/IETF Standing Committee (room tbd)
Tue 16:00-18:00   open

Wed 08:00-09:00   802/ITU Standing Committee

Thu 07:30-08:00   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 10:30-12:30pm   IEEE 802 Task Force
Thu 13:30-15:30   802/JTC1/SC6 Standing Committee
Thu 16:00-18:00pm   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 (Plaza BC)

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. Clarification of Indemnification Policy update, 5 min, Thompson
     2. IEEE SA staff update, 15 min, Goldberg
     3. Chair's interpretation of the definition for "public statement", 15 min, Gilb
     4. (Time specific 11:30am) IEEE SA tools update/discussion, 15 min, Goldberg/Rosdahl
     5. (Time specific 11:45am) Finalize 802 EC response to SASB regarding feedback on the impact of the November 2016 802 EC dominance remedy ratified by SASB, 30 min, Nikolich
     6. Action item review, 5 min, Nikolich

  2. Closed portion of meeting (if necessary):
     1. None.

  3. Adjourn

IEEE 802 Executive Committee report
Special Monday evening session

GraCaSI

New Border Crossing Concerns

802 Exec Special Evening Session
Monday, March 13 6:30 PM
Hyatt: Regency CD

Problem: U.S. Border crossing rules
changed, 2017-01-27.
Added uncertainty to int'l travel
Issues: Will this affect 802 participation?
Do we need to change our venues?

Other IEEE 802 PARs under consideration this week

- **New Standard PARs**
  - IEEE P802.15.11 Multi-Gigabit/s Optical Wireless Communications

- **Amendment project PAR**
  - IEEE P802.15.3f Physical Layer to use the 64 to 71 GHz spectrum

- **Revision PAR**
  - IEEE P802.11 Wireless LAN Medium Access Control and Physical Layer Specifications
  - IEEE P802.15.4 Low-Rate Wireless Networks

ISO/IEC SC25/WG3 liaison report

TIA TR-42 liaison report

IEEE SCC18 report

Formation of IEEE SCC18 ad hoc

- IEEE SCC18 has 60 day deadline for public input
  - For NEC 2020 code cycle IEEE SCC18 deadline is 7th July 2017
    - Prior to the July 2017 IEEE 802.3 plenary meeting
- Need to approve our input at IEEE 802.3 May interim
- Chartering IEEE SCC18 Ad Hoc under IEEE 802.3
  - Build consensus on a draft public input proposals
  - Consider any other IEEE SCC18 related items of interest
    - For example proposed Tentative Interim Amendments (TIA)
  - Appointing Chad Jones as IEEE SCC18 Ad Hoc Chair

ODVA report

Liaison (con't)

- External Liaison letters (new)
  - ISO/IEC JTC1 SC25: IEEE 802.3 on 1-pair cabling
    - IEEE P802.3cg Task Force and IEEE 802.3 Multi-Gig Automotive Ethernet PHY Study Group
  - ITU-T: "Report on standard gap analysis", from ITU-T Focus Group on IMT-2020 and on extension of lifetime of Focus Group IMT-2020 (send early 2016)
  - ITU-T: Focus Group IMT-2020 non-radio aspects of 5G
    - IEEE 802.3 New Ethernet Applications (NEA) Ad Hoc
  - JESD204C Task Group to IEEE 802.3 on referencing COM
    - Adee Ran
  - MEF: Layer 1 Connectivity Services
    - Any volunteers ?

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 (con't)

- External Liaison letters (new) (con't)
  - TIA TR-42: Single-pair Ethernet
    - IEEE P802.3cg Task Force and IEEE 802.3 Multi-Gig Automotive Ethernet PHY Study Group

- External Liaison letters (new, information item)
  - OIF to IEEE P802.3bs and P802.3cd regarding progress on OIF CEI-56G-VSR-PAM4 project
  - ITU-T SG15 to IEEE P802.3ca on wavelength plans and coexistence requirements

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 ...