IEEE 802.3 Working Group Opening Plenary
25th July 2016

David Law

Chair, IEEE 802.3 Working Group

dlaw@hpe.com

Agenda, voter lists:
http://www.ieee802.org/3/minutes/jul16/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 P802.3bs 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 P802.3bu 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 P802.3bz 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: 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 Study Group chairs

IEEE 802.3 YANG Data Model(s) Study Group: Yan Zhuang <zhuangyan.zhuang@huawei.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/jul16/
  - Any modifications, additions or deletions?

- Approve March 2016 plenary meeting and May 2016 interim meeting minutes
  - http://www.ieee802.org/3/minutes/mar16/
    - Published 29th March 2016
  - http://www.ieee802.org/3/minutes/may16/
    - Published 29th May 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.

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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**

15 March 2015

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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

Interim meetings since March 2016

- 14th April 2016, Santa Clara, CA, USA
  - IEEE P802.3bp 1000BASE-T1 Ethernet Task Force
- 14th April 2016, Santa Clara, CA, USA
  - IEEE P802.3bz 2.5G/5GBASE-T Task Force
  - IEEE P802.3bq 25G/40GBASE-T Task Force
- 23rd through 27th May 2016, Whistler, BC, Canada
  - IEEE 802.3 interim meeting series
- 21st June, Santa Clara, CA, USA
  - IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force
- 27th June, Mountain View, CA, USA
  - IEEE P802.3cb 2.5/5 Gb/s Backplane and Copper Cables Task Force
- 27th June, Santa Clara, CA, USA
  - IEEE P802.3bz 2.5G/5GBASE-T Task Force
- 27th and 28th June, Piscataway, NJ, USA
  - IEEE P802.3bs 200 Gb/s and 400 Gb/s Ethernet Task Force
- 28th June, Madrid, Spain
  - IEEE P802.3bv Gigabit Ethernet Over Plastic Optical Fiber 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

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/jul16/0716_imat.pdf

Membership and attendance recording
Review of membership

- IEEE 802.3 voters

  http://www.ieee802.org/3/minutes/jul16/0716_voters.pdf

- IEEE 802.3 voters in peril

  http://www.ieee802.org/3/minutes/jul16/0716_peril.pdf

- IEEE 802.3 potential voters

  http://www.ieee802.org/3/minutes/jul16/0716_potential.pdf

Treasury Report

IEEE 802.3 Ethernet Working Group

Valerie Maguire, IEEE 802.3 Treasurer
The Siemon Company

San Diego, CA

July 25, 2016

IEEE 802.3 Ethernet Working Group Treasury Report, cont.

- Account balance
  - Opening Mar 2016 balance: $21,517.04
  - Deposits: (0.00)
  - Interest paid: 20.16
  - Debits: (0.00)
  - Closing Jun 2016 balance: $21,537.20

IEEE 802 Executive Committee report (p.1)
Meeting for the week (provisional)

Sun   19:30-21:30   LMSC Rules Review (Balboa B)

Mon 08:00-10:00   Opening Executive Committee (Seaport ABC)
Mon 16:00-18:00   802/IETF Standing Committee (Golden Hill B)
Mon 18:00-22:00   no tutorials this session
Mon 19:30-21:30   5G/IMT2020 Standing Cmte (Seaport DE)

Tue   08:00-13:30   open (Balboa B)
Tue   13:30-15:30   802/JTC1/SC6 Standing Committee (La Jolla A)
Tue   16:00-18:00   open (Balboa B)
Tue   19:30-21:30   5G/IMT2020 Standing Cmte (Seaport DE)

Wed 08:00-09:00   802/ITU Standing Committee (Balboa B)
Wed 13:30-17:00   open (Balboa B)
Wed 17:00-18:00   Remote participation Ad Hoc (Balboa B)

Thu   07:00-08:00   Plenary venue space allocation planning (Balboa B)
Thu   08:00-09:00   Future venue planning (Balboa B)
Thu   09:00-10:00   802 Chair's Open Office hour (Balboa B)
Thu   10:30-12:30   IEEE 802 Task Force (Balboa B)
Thu   13:30-15:30   open (Balboa B)
Thu   16:00-18:00   open (Balboa B)

Fri   08:00-12:00   open (Balboa B)
Fri   13:00-18:00   Closing Executive Committee (Harbor AB)

IEEE 802 Executive Committee report (p.2) IEEE 802 Task Force draft agenda

Thurs 10:30AM-12:30 (room: Balboa B)

1. Open portion of meeting:
   1. Clarification of Indemnification Policy update, 15 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

- Tutorials
  - None

- IEEE 802 Student Paper Competition
  - Winner was Meareg Abreha Hailemariam with a paper entitled "History and Implementation of the IEEE 802 Security Architecture".
  - Paper presentation
    - IEEE 802.11 WNG: 08:00 to 10:00 on Tuesday 26th July
    - IEEE 802.15 WNG: 11:30 to 12:30 on Wednesday 27th July

Liaison letters

Liaison letters

- External Liaison letters (new)
  - TIA TR-42: Enhanced Return Loss for Array Plugs and Receptacles
    - Assigned to IEEE P802.3bs Task Force
  - ITU-T SG15: Generation of YANG modules from Transport Technology UML information models
    - Assigned to IEEE 802.3 YANG Data Model(s) Study Group
- External Liaison letters (new, information item)
  - OIF: Progress on OIF CEI-56G Projects liaison letter
  - TIA: Liaison letter to IEEE 802.3bt Task Force re TSB-184-A
  - TIA: Liaison letter to IEEE 802.3bz Task Force re TSB-5021

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.

Continuing Agenda ...