IEEE 802.3 Working Group Opening Plenary
3rd November 2014

David Law

Chair, IEEE 802.3 Working Group

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Agenda, voter lists:

http://www.ieee802.org/3/minutes/nov14/index.html

IEEE 802.3 Officers

IEEE 802.3 Chair: David Law <dlaw@hp.com>

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@avagotech.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 P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic: Dan Dove <dan_dove@ieee.org>

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 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 <john_dambrosia@dell.com>

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): Dave Dwelley <ddwelley@linear.com>

IEEE P802.3bw 100BASE-T1: Thomas Hogenmueller <thomas.hogenmueller@de.bosch.com>

IEEE 802.3 Study Group chairs

IEEE 802.3 Gigabit Ethernet Over Plastic Optical Fiber: Bob Grow <bob.grow@ieee.org>

IEEE 802.3 25Gb/s Ethernet Mark Nowell <mnowell@cisco.com>

WG Decorum

- Photography or recording by permission only (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.4)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.5)
- 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

Congratulations

Pete Anslow

IEEE-SA Standards Medallion

The IEEE-SA Standards Medallion is awarded for major contributions to the development of standards

Agenda and Minutes

- Approve agenda
  - http://www.ieee802.org/3/minutes/nov14/
  - Any modifications, additions or deletions?

- Approve July 2014 minutes
  - http://www.ieee802.org/3/minutes/jul14/
  - Published 2nd August 2014
  - 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 12 and 12a 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**
    - **"Personal awareness" means that the participant "is personally aware that the holder may have a potential Essential Patent Claim," even if the participant is not personally aware of the specific patents or patent claims**
  - **"Should inform the IEEE (or cause the IEEE to be informed)" of the identity of "any other holders of such 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**

25 March 2008 (updated January 2012)

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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

25 March 2008 (updated January 2012)

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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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IEEE 802.3 Standards

- IEEE Std 802.3™-2012 (30th Aug 12 / 28th Dec 12)*

- IEEE Std 802.3bk™-2013 (23rd Aug 13 / 30th Aug 13)*

- IEEE Std 802.3bj™-2014 (12th Jun 14 / 3rd Sep 14)

- IEEE Std 802.3.1™-2013 (14th Jun 13 / 2nd Aug 13)*

  * Available through Get IEEE 802
  http://standards.ieee.org/getieee802/802.3.html

  Note 1: Dates are Approval date / Publication date

Activities since July 2014 meeting
Interim meetings

- 8th through 12th September 2014, Ottawa, ON, Canada
  - IEEE 802.3 Maintenance Task Force
  - IEEE P802.3bm 40 Gb/s and 100 Gb/s Fiber Optic Task Force
  - IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force
  - IEEE P802.3bp 1000BASE-T1 PHY Task Force
  - IEEE P802.3bq 40GBASE-T Task Force
  - IEEE P802.3br Interspersing Express Traffic Task Force
  - IEEE P802.3bs 400 Gb/s Ethernet Task Force
  - IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force
  - IEEE P802.3bu 1-Pair Power over Data Lines (PoDL) Task Force
  - IEEE P802.3bw 100BASE-T1 Task Force
  - IEEE 802.3 Gigabit Ethernet Over Plastic Optical Fiber Study Group
  - IEEE 802.3 25 Gb/s Ethernet Study Group
  - IEEE 802.3 Next Generation EPON (NGEPON) Industry Connections Ad Hoc
- 19th and 20th October 2014, Warren, MI, USA
  - IEEE P802.3bw 100BASE-T1 Task Force
- 2nd November 2014, San Antonio, TX, USA
  - IEEE 802.3 Next Generation EPON (NGEPON) Industry Connections Ad Hoc

Activities since July 2014 meeting IEEE 802.3 balloting

- ## Working Group Ballots:
  - None

- ## Sponsor Ballots:
  - IEEE P802.3bm 1st recirculation ballot
  - IEEE P802.3bm 2nd recirculation ballot

- ## Sponsor Ballots group formations
  - None

Documents for November business

- IEEE P802.3bm 40 Gb/s and 100 Gb/s Over Fiber Optic Cable
  - IEEE P802.3bm/D3.2, 2nd sponsor recirculation ballot comments
- IEEE P802.3 (IEEE 802.3bx) Maintenance #11 (revision)
  - IEEE P802.3/D1.0, Working Group ballot preview draft
- IEEE P802.3bw 100BASE-T1
  - IEEE P802.3bw/D1.1, Working Group ballot preview draft
- IEEE 802.3 Gigabit Ethernet Over Plastic Optical Fiber Study Group
  - New PAR request and supporting CSD and objectives
    - IEEE P802.3bv Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 1000 Mb/s Operation Over Plastic Optical Fiber
- IEEE 802.3 25 Gb/s Ethernet Study Group
  - New PAR request and supporting CSD and objectives
    - IEEE P802.3by Standard for Ethernet Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 25 Gb/s Operation

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 IEEE 802.3 potential voter agenda item
  - Participate in 2 of last 3 WG ballots (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
Review of membership

- IEEE 802.3 voters

  http://www.ieee802.org/3/minutes/nov14/1114_voters.pdf

- IEEE 802.3 voters in peril

  http://www.ieee802.org/3/minutes/nov14/1114_peril.pdf

- IEEE 802.3 potential voters

  http://www.ieee802.org/3/minutes/nov14/1114_potential.pdf

Reflectors and Working Group information

- IEEE 802.3 Working Group reflector <stds-802-3@ieee.org>
    - Not general discussion reflector
    - Subscription limited to members and observers
    - Monitored reflector for announcements of WG business
    - Archive is password protected
- IEEE 802.3 dialog reflector <stds-802-3-dialog@ieee.org>
    - Location for appropriate non project related discussion
- Meeting announcements
    - Sent to IEEE 802.3 and relevant TF/SG reflector(s)
- IEEE 802.3 TF/SG reflectors
    - Location for appropriate project related discussion
    - Subscription instructions are on the related TF/SG web page
- IEEE 802.3 Working Group web site
    - www.ieee802.org/3
    - Private areas access information announced in reports

IEEE 802.3 Working Group Treasurer's Report

Valerie Maguire

IEEE 802.3 Working Group Treasurer

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IEEE-SA Standards Board activity since July

- NesCom recommendations (August IEEE-SASB meeting)
  - IEEE P802.3bw 100BASE-T1 PAR approved
- NesCom recommendations (October teleconference)
  - IEEE P802.3 (IEEE 802.3bx) Maintenance #11 (revision) PAR approved
- RevCom recommendations
  - None
- ICCom recommendations
  - None
- IEEE-SA Standards Board
  - Approved formation new Type 2 SCC on Transportation
  - Approval of patent policy modifications and forwarding to BoG

IEEE 802 Executive Committee report (p.1)

- Treasury
  - IEEE 802 Treasurer's Report
  - San Diego results: ~$40K
  - Total reserve: ~$1M
  - nNA deposit requirements
- Get 802
  - Initial response from IEEE-SA on our request
    - Removal of six months delay from program
    - Inclusion of drafts in program
- IEEE 802 EC workshop
  - Current agenda <agenda-for-nov-2014-ec-workshop>

IEEE 802 Executive Committee report (p.2) Meeting for the week

Sun	19:00-21:30	LMSC Rules Review
Mon	18:30-20:30	Tutorials and 802c PAR discussion
Tue	13:30-15:30	802/JTC1/SC6 standing committee
Tue	16:00-17:00	802 IETF Standing Committee
Tue	18:05-19:15	Future Venue Planning
Tue	19:30-21:30	Privacy ECSG
Wed	08:00-10:00	802.19/Coexistence Lessons Learned
Wed	08:00-10:00	802/ITU Standing Committee
Wed	13:30-15:30	802.19/Coexistence Lessons Learned
Thu	07:00-08:00	Plenary venue space allocation planning
Thu	08:00-09:00	802 Chair's Open Office hour
Thu	10:30-12:30	IEEE 802 Task Force
Thu	13:30-15:30	802.19/Coexistence Lessons Learned
Thu	19:30-21:30	Privacy ECSG
Fri	08:00-12:00	Open

IEEE 802 Executive Committee report (p.3) IEEE 802 Task Force draft agenda

IEEE 802 Task Force, Thurs 10h30 – 12h30 (room: Crockett A)
Tentative agenda

1.   802/SA Roles and Responsibilities document, 15 min, Thompson

2.   SA tools re-architecture status update, 15 min, Kim

    1.   Mentor

    2.   Everything else

3.   Any other business?

4.   Action item review, 10 min, Nikolich

5.   Executive Session (11h30 – 12h30)

    1.   Get IEEE 802 program review, 30 minutes, Nikolich

    2.   Indemnification policy clarification status update, 15 minutes, Nikolich

6.   Adjourn

IEEE 802 Tutorials

- ## Session #1, Monday 18:30 to 20:00
  - Gigabit Ethernet over Plastic Optical Fiber
- ## Session #2, Monday 20:00 to 21:30
  - Introduction to P802.3bn EPON Protocol over Coax (EPoC)
- ## Session #3, Monday 21:30 to 22:30
  - No tutorial session, session will be used for discussion session on IEEE P802c Local MAC Addressing draft PAR

Other IEEE 802 PARs under consideration Comments due by 18:30 Tuesday

- New Standard
    - IEEE P802c Standard for Local and Metropolitan Area Networks: Overview and Architecture: Amendment: Local Media Access Control (MAC) Addressing
    - IEEE P802.1ASRev Standard for Local and Metropolitan Area Networks: Timing and Synchronization for Time-Sensitive Applications
    - IEEE P802.1Qch Standard for Local and metropolitan area networks: Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Cyclic Queuing and Forwarding
    - IEEE P802.15.7a Standard for Local and Metropolitan Area Networks: Part 15.7: Short-Range Wireless Optical Communication Using Visible Light: Amendment for a Physical Layer Supporting Optical Camera Communications

Continuing Agenda ...