IEEE 802.3 Working Group
Opening Plenary
12th November 2012

David Law
Chair, IEEE 802.3 Working Group
dlaw@hp.com

Agenda, voter lists:
http://www.ieee802.org/3/minutes/nov12/index.html
IEEE 802.3 Officers

IEEE 802.3 Chair: David Law <dlaw@hp.com>
IEEE 802.3 Vice Chair: Wael William Diab <wdiab@broadcom.com>
IEEE 802.3 Secretary: Adam Healey <adam.healey@lsi.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 P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision): Howard Frazier <hfrazier@broadcom.com>
IEEE P802.3bj 100 Gb/s Backplane and Copper: John D’Ambrosia <jdambrosia@ieee.org>
IEEE P802.3bk Extended Ethernet Passive Optical Network: Marek Hajduczenia <marek.hajduczenia@zte.pt>
IEEE P802.3bm 40Gb/s and 100 Gb/s Optical Ethernet: Dan Dove <ddove@apm.com>
IEEE P802.3bn EPON Protocol over a Coax (EPoC): Mark Laubach <laubach@broadcom.com>

IEEE 802.3 Study Group chairs
IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet (RTPGE): Steve Carlson <scarlson@hspdesign.com>
IEEE 802.3 Next Generation BASE-T: Bill Woodruff billw@broadcom.com
WG Decorum

- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2012 SASB Op Manual 5.3.3.5)
- Photography or recording by permission only (2012 SASB Op Manual 5.3.3.4)
- 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

• Approve agenda
  – http://www.ieee802.org/3/minutes/nov12/
  – Any modifications, additions or deletions?
Minutes

• Approve Minutes
  – July 2012 minutes
    • http://www.ieee802.org/3/minutes/nov12/
    • Published 11th September 2012
    • 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.
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
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

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.
IEEE 802.3 Standards

• IEEE Std 802.3™-2012 (30 Aug 12 / TBD)

• IEEE Std 802.3.1™-2011 (16 May 11 / 5 Jul 11)*

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

Note 1: Dates are Approval date / Publication date
Interim meetings held since July

- 23rd through 28th September 2012 Geneva, Switzerland
  - IEEE 802.3 Maintenance Task Force
  - IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs Task Force
  - IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force
  - IEEE P802.3bk Extended EPON Task Force
  - IEEE P802.3bm 40Gb/s and 100 Gb/s Optical Ethernet Task Force
  - IEEE P802.3bn EPON Protocol over a Coax Task Force
  - IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group
  - IEEE 802.3 Next Generation BASE-T Study Group
  - IEEE 802.3 Industry Connections Higher Speed Ethernet Ad Hoc

- 28th and 29th October, Hangzhou, China
  - IEEE P802.3bn EPON Protocol over a Coax Task Force
IEEE 802.3 ballots since July

• Working Group Ballots:
  – IEEE P802.3.1 (IEEE 802.3.1a) 2\textsuperscript{nd} recirculation

• Sponsor Ballots:
  – IEEE P802.3 (IEEE 802.3bh) 3\textsuperscript{rd} recirculation

• Sponsor Ballots group formations
  – IEEE P802.3.1 (IEEE 802.3.1a)
WG documents for November business

- IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision)
  - IEEE P802.3.1/D1.2 (2nd Working Group recirculation ballot) and ballot comments
- IEEE P802.3bk Extended EPON Task Force
  - IEEE P802.3bk/D1.2 (Working Group preview)
- IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group
  - IEEE P802.3bp Amendment: Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over Fewer than Three Twisted Pair Copper Cable draft PAR and 5C
Membership and Attendance

• 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
Meeting attendance tool procedures

Adam Healey
IEEE 802.3 Working Group Secretary
adam.healey@lsi.com
802.3 Membership

• IEEE 802.3 voters

• IEEE 802.3 voter in peril

• IEEE 802.3 potential voters
  http://www.ieee802.org/3/minutes/nov12/1112_potential.pdf
Reflectors and WG 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
valerie_maguire@siemon.com
IEEE-SA Governance highlights August

• NesCom recommendations
  – IEEE P802.3bm 40Gb/s and 100 Gb/s Optical Ethernet
    • PAR approved
  – IEEE P802.3bn EPON Protocol over a Coax (EPoC)
    • PAR approved

• RevCom recommendations
  – IEEE P802.3 (IEEE 802.3bh) Maintenance #10 (revision)
    • Standard approved

• Items of note
  – External representatives policy
  – Appeals update
    • No technical appeals
LMSC EC Report (p.1)

• IEEE 802 rules meeting
  – Proposed update to 5 Criteria questions
    https://mentor.ieee.org/802-ec/dcn/12/ec-12-0056-02-00EC-proposed-5c.pdf
  – Commenting to follow PAR process
    • Comments due by 1700 Tuesday

• ISO/IEC JTC 1
  – Still working on agreement
    • SC6 give responsibility for ’revision’ to IEEE 802
    • Need to provide a process for Nation Bodies to participate
  – IEEE 802 JTC1 SC6 Ad Hoc meeting
    • Tuesday, Wednesday & Thursday 1:00PM
LMSC EC Report (p.2)

• January 2015 and 2016 interims in Atlanta
  – Free up March meeting slot for NNA plenary meetings

• Treasury
  – Surplus of $14K from July plenary
  – Reserve $933K
IEEE 802 EC meeting for the week

- Sunday 7:30-9:30pm LMSC Rules Review (Crocket A)
- Monday 1:30-3:30pm 802 Architecture (room: Seguin A)

- Tuesday 8-9am University Outreach Orientation (room: Republic C)
- Tuesday 1:30pm-3:30pm JTC1/SC6 ad hoc (cross 802 related topics, room: Bonham A)
- Tuesday 3pm-4pm July 2013 Geneva venue preparation
- Tuesday 4-5pm University Outreach Feedback (room: Republic C)

- Wed 12:30-1:30pm Future Plenary Session Venue options review
- Wed 1:30pm-3:30pm JTC1/SC6 ad hoc (cross 802 related topics, room tbd)

- Thursday 10:30-12:30pm 802 Architecture (room: Goliad)
- Thursday 10-noon IEEE 802 Task Force (room: Crocket A)
- Thursday 1:30pm-3:30pm JTC1/SC6 ad hoc (cross 802 related topics, room: TBD)
- Thursday 5-10pm Registration Authority Committee room: Crocket A (SA BoG subcommittee mtg)
IEEE 802 Task Force agenda

• 802 Task Force, Thurs 10AM-1PM (room: Crocket A)

• Tentative agenda

1. Retention and access for old drafts-SA policy (McCabe/Kraemer)
2. Contract execution status/cumbersome process (McCabe/Rosdahl)
3. Document publication priority update (Turner)
4. IEEE-SA/ETSI MoU renewal update (McCabe)
5. International Activities Update (Haasz)
6. World Conference on International Telecommunications status (McCabe)
7. IEEE SA Etools update (Peinciak)
8. Single Copy Sales Channel--update (McCabe/Nikolich)
9. getIEEE 802 update (McCabe)
10. SEPT Security Breach, NOV Facility/IT Failure discussion (Walter Peinciak)
11. Any Other Business?
   1. CD-ROM Agreement (Bennett)?
   2. July 2013 802/ITU workshop (Jodi Haasz) ?
12. Action item review – Nikolich
13. Adjourn
IEEE-SA and IEEE IT Director Open Office Hours

• IEEE Staff in attendance
  – Gil Santiago, IEEE IT Director; Walter Pienciak, IEEE-SA Senior Manager, Technology Solutions; Karen McCabe, IEEE-SA Senior Director, Strategy, Marketing and Product Development

• Location
  – Seguin B, 4th Level

• Tuesday, 13th November
  – 8:30-10:30am; 12:00-1:00pm; 3:00-4:00pm

• Wednesday 14th November
  – 8:30-10:30am; 12:00-1:00pm; 3:00-4:00pm
Tutorials

• Session #1, Monday 6:00 PM to 7:30 PM
  – Deterministic 802 Networking

• Session #2, Monday 7:30 PM to 9:00 PM
  – Applications of Layer 2 Routing

• Session #3, Monday 9:00 PM to 10:30 PM
  – An Introduction to IEEE 802.24
IEEE-SA –European Telecommunication Standards Institute (ETSI) Memorandum of understanding renewal

David Law, HP
dlaw@hp.com

Moira Patterson, IEEE-SA
m.patterson@ieee.org
IEEE-SA - ETSI MOU

IEEE-SA and ETSI are in the process of renewing and updating their MOU, aiming for finalization in mid-November (previous MOUs signed in 1999, and updated in 2009).

Benefits

Map areas of mutual interest, where WGs express interest in closer cooperation. This provides IEEE WGs some benefits they would not otherwise have:
- Framework to request that drafts be shared
- Framework to send an observer to ETSI groups
Document sharing between mapped technical groups

- ETSI TC can request documents, including working documents, standards drafts, workplans, roadmaps, and future plans
- IEEE WG can request documents, including working documents, standards drafts, workplans, roadmaps, and future plans
- This exchange is **conditional on the owning TC/WG’s agreement** to provide the requested documents
- AND The dissemination by one party of the documents received from the other party will be **strictly limited to the participants in the IEEE WG and members of the ETSI Working Group**, and solely for the **purpose of technical and/or promotional activities** relating to the party's work programme.
Observers or non-voting participants between mapped technical groups

- To the extent permitted by the relevant party’s organizational documents, and upon mutual consent, attendance at the other technical group’s meeting may be accepted, as follows:

- When the agenda contains items of mutual interest, the IEEE WG may nominate an Observer to attend the ETSI TC meeting.

- When the agenda contains items of mutual interest, the ETSI TC may nominate a Non-Voting Participant to attend the IEEE WG meeting.

- These Observers/Non-Voting Participants shall be entitled to participate fully in discussions on relevant work items, and may submit written contributions for information only, but shall have no voting rights, unless such rights are obtained under the relevant party’s organizational documents. This MOU does not allow for these contributions to be incorporated; incorporation would require prior written consent.

- They should inform in writing the Chairperson of the ETSI Technical Body or the IEEE Working Group in which they are participating if there are overlapping work areas.
<table>
<thead>
<tr>
<th>IEEE</th>
<th>ETSI Technical Committee (TC) and/or ETSI Project</th>
<th>Areas</th>
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<tbody>
<tr>
<td>IEEE 802.11 WG and IEEE 802.16 WG</td>
<td>TC BRAN (Broadband Radio Access Networks)</td>
<td>Harmonization of EN 301 893 (5 GHz RLAN) with IEEE 802.11; Harmonization of HiperMAN specifications with IEEE 802.16.</td>
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<td>IEEE 802.11 WG and IEEE 1609 WAVE WG</td>
<td>TC ITS (Intelligent Transport Systems)</td>
<td>Coordination of the standardization activities for wireless communications for vehicular and pedestrian safety for global applicability in Intelligent Transport Systems.</td>
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<td>IEEE WGs:</td>
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<td>- 802.3 (Ethernet WG)</td>
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<td>- 802.11 (Wireless LAN WG)</td>
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<td>- 802.15 (Wireless Personal Area Network (WPAN) WG)</td>
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<td>- 802.22 (Wireless Regional Area Network (WRAN) WG)</td>
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<td>- P1905</td>
<td>TC ATTM (Access, Terminals, Transmission and Multiplexing)</td>
<td>Coordinate standardization work in the following topics:</td>
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<td>• 802.3bg 40G Serial SMF</td>
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<td>• 802.3bj 100G backplane &amp; twinax</td>
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<td>• Next gen100G optical PHYs</td>
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<td>• Ethernet Bandwidth Assessment</td>
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<td>• 802.3 EPOC</td>
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<td>• powerline mesh P1905 inductive coupling</td>
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<td>IEEE 802.16’s Machine-to-Machine (M2M) Task Group</td>
<td>TC M2M</td>
<td>Exchange of information on WANs and MANs (wireless networks) standardization work that could be used in IoT connectivity.</td>
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<td>IEEE 802.11 (Wireless Local Area Networks (WLAN)) IEEE 802.15 (Wireless Personal Area Networks (WPANs)) Working Groups</td>
<td>TC ERM (EMC and Radio Spectrum Matters) Technical Groups 28 (Generic SRDs) and 30 (ERM Wireless Medical Devices)</td>
<td>Exchange of information on standardization activities in the areas of smart metering and medical devices.</td>
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Action

- Each IEEE WG to indicate its interest in being mapped as listed, under the conditions provided in this presentation.
- If modifications are sought, please inform IEEE-SA staff.
Continuing Agenda ...