

# IEEE 802.3 Working Group Opening Plenary 18<sup>th</sup> March 2013

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

Agenda, voter lists:  
<http://www.ieee802.org/3/minutes/mar13/index.html>

# IEEE 802.3 Officers

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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 P802.3bp Reduced Twisted Pair Gigabit Ethernet (RTPGE): Steve Carlson <scarlson@hspdesign.com>

## **IEEE 802.3 Study Group chairs**

IEEE 802.3 Next Generation BASE-T: Bill Woodruff <billw@broadcom.com>

IEEE 802.3 Distinguished Minimum Latency Traffic (DMLT) <ludwig.winkel@siemens.com>

# WG Decorum

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- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2013 SASB Op Manual 5.3.3.5)
- Photography or recording by permission only (2013 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 and Minutes

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- Approve agenda
  - <http://www.ieee802.org/3/minutes/mar13/>
  - Any modifications, additions or deletions?
- Approve November 2012 minutes
  - <http://www.ieee802.org/3/minutes/nov12/>
  - Published 2<sup>nd</sup> February 2013
  - 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>

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](mailto: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.**

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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

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

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- 21<sup>st</sup> through 25<sup>th</sup> January 2013 Phoenix, AZ, USA
  - 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 P802.3bp Reduced Twisted Pair Gigabit Ethernet Task Force
  - IEEE 802.3 Next Generation BASE-T Study Group
  - IEEE 802.3 Distinguished Minimum Latency Traffic Study Group
  - IEEE 802.3 Industry Connections Higher Speed Ethernet Ad Hoc

# IEEE 802.3 ballots since November

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- Working Group Ballots:
  - IEEE P802.3bk initial
  - IEEE P802.3bk 1st recirculation
- Sponsor Ballots:
  - IEEE P802.3.1 (IEEE 802.3.1a) initial
  - IEEE P802.3.1 (IEEE 802.3.1a) 1<sup>st</sup> recirculation
- Sponsor Ballots group formations
  - IEEE P802.3bk

# WG documents for March business

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- IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision)
  - IEEE P802.3.1/D2.1 (1st Sponsor recirculation ballot) and ballot comments
- IEEE P802.3bk Extended EPON Task Force
  - IEEE P802.3bk/D2.1 (1st Working Group recirculation ballot) and ballot comments
- IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force
  - IEEE P802.3bj/D1.4 (Working Group preview)
- IEEE P802.3bm 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables Task Force
  - IEEE P802.3bm Amendment: Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables draft PAR modification and updated 5C
- IEEE 802.3 Next Generation BASE-T Study Group
  - IEEE P802.3bp Amendment: Physical Layer and Management Parameters for 40 Gb/s Operation, Type 40GBASE-T draft PAR and 5C

# Membership and Attendance

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- 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](mailto:adam.healey@lsi.com)

# 802.3 Membership

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- **IEEE 802.3 voters**

[http://www.ieee802.org/3/minutes/mar13/0313\\_voters.pdf](http://www.ieee802.org/3/minutes/mar13/0313_voters.pdf)

- **IEEE 802.3 voter in peril**

[http://www.ieee802.org/3/minutes/mar13/0313\\_peril.pdf](http://www.ieee802.org/3/minutes/mar13/0313_peril.pdf)

- **IEEE 802.3 potential voters**

[http://www.ieee802.org/3/minutes/mar13/0313\\_potential.pdf](http://www.ieee802.org/3/minutes/mar13/0313_potential.pdf)



# Reflectors and WG information

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- 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](http://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](mailto:valerie_maguire@siemon.com)

# IEEE-SA Governance highlights December and March

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- NesCom recommendations
  - IEEE P802.3bp Reduced Twisted Pair Gigabit Ethernet
    - PAR approved
  - IEEE P802.3bj 100 Gb/s Backplane and Copper Cable
    - PAR modification approved
- ProCom
  - Parallel balloting
  - External representatives and liaisons
- PatCom
  - Policy review Ad Hoc
  - Consideration for Developing Nations
- IEEE-SA Standards Board
  - Draft sharing between Working Groups

# LMSC EC Report (p.1)

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- IEEE 802 rules meeting
  - Which interims counts, update to 5 Criteria, 'mission statement' for 5C, renaming to CSD
- ISO/IEC JTC 1
  - IEEE 802 JTC1 SC6 Ad Hoc meeting
    - Meetings Tuesday, Wednesday & Thursday 1:00PM
  - IEEE standards in process
    - Pre-ballot 60 days and 5 months ballot
    - IEEE Std 802.1X and IEEE Std 802.1AE
      - Passed pre-ballot, comment disposition
    - IEEE Std 802.11aa, Std 802.11ad and IEEE Std 802.11ae
      - In pre-ballot
- OmniRAN
  - Executive Committee Study Group

# LMSC EC Report (p.2)

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- IETF coordination
  - List of item for coordination, bimonthly calls
  - Leadership meeting on Saturday
  - Revision of RFC 4441 underway
- Meetings
  - Potential to move Dallas Nov 2015 to March 2015
    - No change in March date
  - Contracts
    - Networks services, Meeting service
    - Meeting Manager
- Treasury
  - IEEE 802 and 802.3 L50S submitted
  - \$1.1M reserve

# LMSC EC Report (p.3)

## IEEE 802 EC meeting for the week

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Sunday 7:00-8:30pm LMSC Rules Review (Governors Boardroom)

Sunday 8:30-10:00pm Meeting Manager Contract review – Executive Session– (Governors Boardroom)

Monday 1:30-3:30pm 802 Architecture (room: Antigua 3)

Monday 6:00-7:30pm 802 Chair's "open office hours" – come by and chat with Paul (Governors Boardroom)

Tuesday 8-9am University Outreach Orientation (room: Caribbean 6)

Tues 1:30pm-3:30pm JTC1/SC6 ad hoc (cross 802 related topics, Antigua 3)

Tuesday 3pm-4pm July 2013 Geneva venue preparation (Governors Boardroom)

Tuesday 4-5pm University Outreach Feedback(room: Caribbean 6)

Wed 12:30-1:30pm Future Plenary Session Venue options review

Wed 1:30pm-3:30pm JTC1/SC6 ad hoc (cross 802 related topics, Antigua 3)

Wed 3:00-5:15pm Ethernet 40th anniversary planning and 802 Marketing (Governors Boardroom)

Wed 1:00-4:00pm Central Desktop Use Case demonstrations (Curacao 5)

Wed 4:00-5:00pm Central Desktop demonstration of "802 Project & Standards Database" (Curacao 5)

Thursday 9:30-10:00 Internet of Things coordination of feedback to SA (Governor's Boardroom)

Thursday 10:30-12:30pm 802 Architecture (room: Boca 2)

Thursday 10-noon IEEE 802 Task Force (room: Caribbean 1)

Thursday 1:30pm-3:30pm JTC1/SC6 ad hoc (cross 802 related topics, room: Antgua 3)

Thursday 1:00-5:00 Central Desktop Use Case demonstrations (Curacao 5)

# LMSC EC Report (p.4)

## IEEE 802 Task Force tentative agenda

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- 802 Task Force, Thurs 10AM-1PM (room: Governors Boardroom)
  1. Document publication priority update (Turner)
  2. RIP: Single copy sales trial program post mortem (McCabe)
  3. getIEEE 802 update (McCabe)
  4. OpenStand update (McCabe)
  5. ITU related updates (McCabe)
    1. World Conference on International Telecommunications
    2. World Telecommunications Policy Forum (WTPF)
    3. World Telecommunications Standardization Assembly (WTSA)
    4. RES 82-ITU collaborationproposal
    5. Internet Technical Advisory Committee (ITAC) of Organization for Economic Co-operation and Development
  6. IEEE-SA Etools update (Christina)
  7. International Activities Update (Haasz)
    1. July 2013 802/ITU workshop (Jodi Haasz)
  8. IEEE-SA Requirements gathering for “a code/object repository with URLs that can be relied on for the lifecycle of the content referred to”
  9. Publication of 802 drafts – process status review (Thompson)
  10. IEEE 802 Requirements for IEEE SA staff support at 802 Sessions (Nikolich)
  11. Any Other Business?
  12. Action item review – Nikolich
  13. Adjourn

# Tutorials

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- **Session #1, Monday 6:00 PM to 7:30 PM**
  - IEEE Std 802.1Q introduction
    - Capabilities of IEEE 802.1Q, especially those that have been added since 2005 such as Provider Bridging, OAM and Data Center Bridging and the work that is currently in progress
  - IEEE 802 Chairman's 'open office hour'
    - Open invitation to discuss any IEEE 802 topic/issue/concern with Paul Nikolich.
- **Session #2, Monday 7:30 PM to 9:00 PM**
  - Shared 5 GHz bands update



Continuing Agenda ...