

# IEEE 802.3 Working Group Opening Plenary 17<sup>th</sup> March 2014

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

Agenda, voter lists:  
<http://www.ieee802.org/3/minutes/mar14/index.html>

# IEEE 802.3 Officers

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

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@lsi.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 P802.3bj 100 Gb/s Backplane and Copper Cable: Adam Healey <adam.healey@lsi.com>

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 Reduced Twisted Pair Gigabit Ethernet PHY: 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 P802.3bt 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 802.3 Study Group chairs**

IEEE 802.3 400 Gb/s Ethernet: John D'Ambrosia <john\_dambrosia@dell.com>

# WG Decorum

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- 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

# Agenda and Minutes

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- Approve agenda
  - <http://www.ieee802.org/3/minutes/mar14/>
  - Any modifications, additions or deletions?
- Approve November 2013 minutes
  - <http://www.ieee802.org/3/minutes/nov13/>
  - Published 28<sup>th</sup> November 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<sup>th</sup> Aug 12 / 28<sup>th</sup> Dec 12)\*
- IEEE Std 802.3.1™-2013 (14<sup>th</sup> Jun 13 / 2<sup>nd</sup> Aug 13)\*
- IEEE Std 802.3bk™-2013 (23<sup>rd</sup> Aug 13 / 30<sup>th</sup> 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 November 2013 meeting

## Interim meetings

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- 20<sup>th</sup> through 24<sup>th</sup> January 2014, Indian Wells, CA, USA
  - IEEE 802.3 Maintenance Task Force
  - IEEE P802.3bj 100 Gb/s Backplane and Copper Cable 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 Reduced Twisted Pair Gigabit Ethernet PHY Task Force
  - IEEE P802.3bq 40GBASE-T Task Force
  - IEEE P802.3br Interspersing Express Traffic 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 802.3 400 Gb/s Ethernet Study Group
  - IEEE 802.3 Next Generation EPON (NGEPON) Industry Connections Ad Hoc

# Activities since November 2013 meeting

## IEEE 802.3 balloting

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- Working Group Ballots:
  - IEEE P802.3bm initial ballot
  - IEEE P802.3bm 1<sup>st</sup> recirculation
- Sponsor Ballots:
  - IEEE P802.3bj initial ballot
  - IEEE P802.3bj 1<sup>st</sup> recirculation
- Sponsor Ballots group formations
  - IEEE P802.3bm in progress
    - Closes at 23:59ET on Wednesday 26<sup>th</sup> March 2014

# Documents for March business

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- IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force
  - IEEE P802.3bj/D3.1, 1<sup>st</sup> sponsor recirculation ballot comments
- IEEE P802.3bm 40 Gb/s and 100 Gb/s Over Fiber Optic Cable
  - IEEE P802.3bm/D2.1, 1<sup>st</sup> Working Group recirculation ballot comments
- IEEE P802.3bp Reduced Twisted Pair Gigabit Ethernet PHY
  - IEEE P802.3bp PAR modification and supporting unmodified CSD responses (grandfathered 5 Criteria responses)
    - IEEE P802.3bp Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 1 Gb/s Operation over a Single Twisted Pair Copper Cable
- IEEE 802.3 400Gb/s Ethernet Study Group
  - New PAR request and supporting CSD and objectives
    - IEEE P802.3bs Standard for Ethernet Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 400 Gb/s Operation

# Membership and attendance recording

## Membership requirements

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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

# Membership and attendance recording

## Meeting attendance tool procedures

Pete Anslow  
IEEE 802.3 Working Group Secretary  
panslow@ciena.com

# Membership and attendance recording

## Review of membership

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- **IEEE 802.3 voters**

[http://www.ieee802.org/3/minutes/mar14/0314\\_voters.pdf](http://www.ieee802.org/3/minutes/mar14/0314_voters.pdf)

- **IEEE 802.3 voters in peril**

[http://www.ieee802.org/3/minutes/mar14/0314\\_peril.pdf](http://www.ieee802.org/3/minutes/mar14/0314_peril.pdf)

- **IEEE 802.3 potential voters**

[http://www.ieee802.org/3/minutes/mar14/0314\\_potential.pdf](http://www.ieee802.org/3/minutes/mar14/0314_potential.pdf)



# Reflectors and Working Group 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 Standards Board IEEE 802.3 related actions since November

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- NesCom recommendations (Dec IEEE-SASB meeting)
  - IEEE P802.3br Interspersing Express Traffic PAR approved
  - IEEE P802.3bt DTE Power via MDI over 4-Pair PAR approved
  - IEEE P802.3bu 1-Pair Power over Data Lines (PoDL) PAR approved
- RevCom recommendations
  - None
- ICom recommendations (Dec IEEE-SASB meeting)
  - IEEE 802.3 Next Generation EPON (NGEPON) Industry Connections Activity Initiation Document (ICAID) approved

# IEEE-SA Standards Board

## December 2013 meeting highlights

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- ICCom
  - ICCom IPR Ad Hoc
- ProCom
  - myProject and Affiliation
  - Behavior of Balloters
- PatCom
  - Enforcement agencies challenges Ad Hoc
- IEEE-SA Standards Board
  - ICCom Work Product Scope Ad Hoc
  - Potential Scope Overlap between Different Sponsors for Proposed New PARs Ad Hoc

# IEEE 802 Executive Committee report (p.1)

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- Elections

- Paul Nickolich is standing for re-election
- Paul proposes no changes to appointed positions if re-elected
  - 1st Vice-chair: Pat Thaler
  - 2nd Vice-chair: James Gilb
  - Recording Secretary: John D'Ambrosia
  - Treasurer: Clint Chaplin
  - Executive Secretary: Jon Rosdahl
  - Member Emeritus: Geoff Thompson
  - Hibernating Working Group IEEE 802.17 Chair: John Lemon
  - Hibernating Working Group IEEE 802.20 Chair: Radhakrishna Canchi
  - Executive Committee Study Group OmniRAN Chair: Max Reigel
    - Until such time the OmniRAN PAR is approved and project begins in IEEE 802.1

- IEEE 802.3 elections

- Nominations close at end of this opening plenary

# IEEE 802 Executive Committee report (p.2)

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- IEEE 802 Overview and Architecture
  - Second recirculation ballot results
    - <http://www.ieee802.org/secmail/msg17281.html>
  - Summary
    - 96% affirmative, 90% returned, 4% abstention
    - 6 negative votes with comments, 41 comments, 40 are MBS
- IEEE 802 rules
  - Proposed IEEE 802 rule changes
    - <https://mentor.ieee.org/802-ec/dcn/14/ec-14-0011-01-00EC-rule-changes-for-march-2014.pdf>
  - Election of Sponsor Chair
    - Only by the WG Chairs and TAG Chairs who are Voting Members
  - Remove term limits
  - Reciprocal credit
  - Ex-officio members

# IEEE 802 Executive Committee report (p.3)

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- Treasury
  - IEEE 802 Treasurer's Report
    - <https://mentor.ieee.org/802-ec/dcn/14/ec-14-0020-00-00EC-2014-03-17-treasurer-report.pdf>
  - Dallas deficit \$8.4K, Beijing deficit \$425K estimate
  - Total reserve \$876K estimate
- W3C/IAB workshop on Strengthening the Internet Against Pervasive Monitoring (STRINT)
  - IEEE 802 invited, Juan Carlos Zuniga attended
  - Workshop report
    - <https://mentor.ieee.org/802-ec/dcn/14/ec-14-0023-00-00EC-strint-workshop-summary.pptx>
  - Link layer encryption, MAC address
  - IEEE 802 EC teleconference to discuss further

# IEEE 802 Executive Committee report (p.4)

## Meeting for the week

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Sun	7:00-9:30pm	LMSC Rules Review (Function 3A-CW Arcade level)
Mon	6:00-7:30pm	Optical Backplane Tutorial (Grand Ballroom CD, CW-Level 1)
Tue	8:00-9:00am	University Outreach Orientation (Room 2-Trader Level 1 West)
Tue	10:30-12:30pm	802 Architecture (CW – Function Room 3A)
Tue	1:30pm-3:30pm	JTC1/SC6 standing committee (Function 12-CW Level 1)
Tue	6:00-7:30pm	Nuts and Bolts of Internet of Things (Grand Ballroom CD, CW-L1)
Tue	5:00-6:00pm	802 Chair's Open Office Hour (Function 3A-CW Arcade level)
Wed	8:00-10:00am	Future Venue details (Function 3A-CW Arcade level)
Wed	10:30-12:30pm	ITU standing committee (Room F –Trader Level 1 East)
Wed	1:30pm-3:30pm	JTC1/SC6 standing committee (Function 12-CW Level 1)
Thu	8:00-10:00	Meeting planner RFP (Function 3A-CW Arcade Level)
Thu	10:30-12:30	802 Architecture (Trader Level1 East room A)
Thu	10:30-12:30	IEEE 802 Task Force (Function 3A-CW Arcade Level)
Thu	1:30pm-3:30pm	JTC1/SC6 standing committee (Function 12-CW Level 1)



# IEEE 802 Executive Committee report (p.5)

## IEEE 802 Task Force draft agenda

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802 Task Force, Thurs 10:30AM-12:30 (Function 3A-CW Arcade Level)

1. Next generation publishing program status update (Penciak)
2. SA tools re-architecture status update (Penciak)
  1. Mentor
  2. Everything else
3. International Topics (Haasz)
4. ITU World Summit on the Information Society (WSIS) status (Parsons)
5. Web conferencing pilot program status (Bennett)
6. Follow up on 802/SA relevant EC workshop items  
(e.g., 07DEC 802/SA mtg, 22JAN EC discussion, etc.)
7. Any Other Business?
8. Action item review – Nikolich
9. Adjourn

# IEEE 802 Tutorials

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- Session #1, Monday 6:00 PM to 7:30 PM
  - Optical Backplanes
- Session #2, Monday 7:30 PM to 9:00 PM
  - None
- Session #3, Monday 9:00 PM to 10:30 PM
  - None

# Continuing Agenda ...