IEEE 802.3 Working Group
Opening Plenary
10th November 2008

David Law
Chair, IEEE 802.3 Working Group
David.Law@3Com.com

Agenda, voter lists:
http://www.ieee802.org/3/minutes/nov08/index.html
Introductions

• Officers
  – IEEE 802.3 Chair: David Law (David_Law@3Com.com)
  – IEEE 802.3 Vice Chair: Wael William Dial (wdiab@broadcom.com)
  – IEEE 802.3 Exec. Secretary: Steve Carlson (scarlson@esta.org)
  – IEEE 802.3 Secretary: Adam Healey (Adam.Healey@lsi.com)
  – IEEE 802.3 Treasurer: Brad Booth (bbooth@ieee.org)
  – IEEE P802.3ar Congestion Mgt: contact WG Chair
  – IEEE P802.3at DTE Power via the MDI Enhancements: Mike McCormack (mike_mccormack@ti.com)
  – IEEE P802.3av 10G EPON: Glen Kramer (glen.kramer@teknovus.com)
  – IEEE P802.3az Energy Efficient Ethernet: Mike Bennett (mjbennett@lbl.gov)
  – IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet: John D’Ambrosia (jdambrosia@force10networks.com)
Administrative agenda

• Introductions and General announcements
  – Committee decorum
  – Logistics
• Revise/Approve agenda
  – www.ieee802.org/3/minutes/jul08
• General WG Business
  – Approve July 2008 minutes
  – Activities since last plenary meeting
  – Attendance procedures
  – Membership lists
  – Patent policy / Call for Patents
  – Treasurer’s Report
WG Decorum

- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2008 SASB Op Manual 5.3.3.5)
- Photography or recording by permission only (5.3.3.4)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
Agenda and minutes

• Approve agenda
• Approve Minutes
  – July minutes
IEEE 802.3 Standards

- IEEE Std 802.1AX™-2008 Link Aggregation\(^{Note 1}\)
- IEEE Std 802.3™-2008 Ethernet\(^{Note 2}\)

\(^{Note 1}\) – To be transferred to IEEE 802.1  
\(^{Note 2}\) – Publication expect December 2008

- IEEE Std 802.3TM-2005 (12 Dec 2005)*  
  - IEEE Std 802.3-2005/Cor 1-2006 (26 Jun 2006)*  
  - IEEE Std 802.3an™-2006 (1 Sep 2006)*  
  - IEEE Std 802.3aq™-2006 (16 Oct 2006)*  
  - IEEE Std 802.3as™-2006 (13 Nov 2006)*  
  - IEEE Std 802.3ap™-2007 (22 May 2007)*  
  - IEEE Std 802.3-2005/Cor 2-2007 (17 Aug 2007)*

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

- IEEE 802.3 Working Group (stds-802-3@ieee.org) is a monitored reflector for announcements of WG business
  - Not a general discussion reflector
  - Subscription limited to members and observers
  - Archive is password protected
- IEEE 802 plenary meeting announcements may be received by subscribing to: stds-802-all@ieee.org
- IEEE 802.3 interim meetings are announced on the 802.3 and relevant TF/SG reflector
- IEEE 802.3 TF/SG reflectors are the location for appropriate project related discussion
- Reflector subscription
  - Instructions are on the 802.3 and TF/SG web pages
- Web site
  - www.ieee802.org/3
  - Access information to private areas is announced by Vice Chair, TF/SG Chairs and in WG announcements
Interim meetings held since July

• Seoul, South Korea, 12\textsuperscript{th} - 15\textsuperscript{th} September 2008
  – IEEE P802.3at, DTE Power Enhancements
  – IEEE P802.3av, 10G EPON
  – IEEE P802.3az, Energy Efficient Ethernet
  – IEEE P802.3ba, 40Gb/s and 100Gb/s Ethernet
  – IEEE 802.3 Maintenance

• Dallas, TX, USA 9\textsuperscript{th} and 10\textsuperscript{th} November 2008
  – IEEE P802.3ba, 40Gb/s and 100Gb/s Ethernet
IEEE 802.3 ballots since July

• Working Group Ballots:
  – IEEE P802.3at D3.1, 1st recirculation ballot
  – IEEE P802.3at D3.2, 2nd recirculation ballot
  – IEEE P802.3av D2.0, initial ballot
  – IEEE P802.3av D2.1, 1st recirculation ballot

• Sponsor Ballots:
  – None

• Sponsor Ballots group formations
  – IEEE P802.3at
  – IEEE P802.3av
WG documents for November business

- IEEE P802.3at (DTE Power Enhancements)
  - IEEE P802.3at/D3.2 (2\textsuperscript{nd} Working group recirculation ballot) and ballot comments

- IEEE P802.3av (10Gb/s EPON)
  - IEEE P802.3av/D2.1 (1\textsuperscript{st} Working group recirculation ballot) and ballot comments

- IEEE P802.3bc (Ethernet Organizationally Specific TLVs)
  - IEEE P802.3bc/D1.0 (WG preview)
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 802.3 potential voter agenda item
  - Participate in 2 of last 3 WG ballots (retaining membership)
  - Maintain valid contact information
  - Consistent declaration of affiliation
Attendance procedures

Adam Healey
Secretary, IEEE 802.3 Working Group

Adam.Healey@lsi.com
Meeting Attendance

- The IEEE-SA Meeting Attendance Tool will be the basis of the official attendance record for this meeting.

- To use the tool, you must have an IEEE Web Account.
Points of emphasis

• Your login is the primary e-mail address specified in your IEEE Web Account
  – The first time you login to the system, you will be asked to create a password
  – This password only applies to this meeting week, and it does not have to be your IEEE Web Account password
  – Use the same login and password throughout the meeting week

• You need to login only once per meeting
  – You are certifying that you are attending a "substantial" portion of that meeting
Contact information

• A participant’s web account information will be the official record for contact information
  – This information may be updated at any time by the participant
  – It is not subject to errors during transcription of a written record
  – Your name will appear in the record as it is entered in your IEEE Web Account
  – The primary e-mail address specified in your IEEE Web Account will be our primary means to contact you

• To obtain and maintain voting membership, you must maintain correct contact information in the official record
November 2008 specifics – 1

- Christina Sahr will be on site to support participants with Web Account and Attendance Tool issues

- The Meeting Attendance Tool server for this meeting is...
  - [http://murphy.events.ieee.org/imat/](http://murphy.events.ieee.org/imat/)
  - The server is locally hosted and cannot be reached outside of the local network – You MUST disconnect your VPN software
  - If you create a bookmark for this link, ensure that the bookmark reflects this URL exactly as shown
  - DO NOT bookmark any pages to which this link re-directs you
Do you have and IEEE Web Account?

• NO
  – Create a Web Account: www.ieee.org

• YES, I have an IEEE Web Account and I remember my username and password
  – Proceed to log your attendance

• MAYBE, I have an IEEE Web Account but don’t remember the password
  – Reset your Web Account password: www.ieee.org
  – If you cannot remember your username, contact Christina Sahr (c.sahr@ieee.org)
Welcome to the IEEE Attendance Tracking system. This system provides onsite attendance tracking integrated with the IEEE myProject™ system.

Please select the meeting you are currently attending

<table>
<thead>
<tr>
<th>Start Date</th>
<th>Meeting Name</th>
<th>City</th>
<th>Country</th>
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<tbody>
<tr>
<td>2008/11/09</td>
<td>NOV08 - IEEE 802 Plenary - Dallas</td>
<td>Dallas</td>
<td>US</td>
</tr>
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</table>
Enter your primary e-mail address as specified in your IEEE Web Account
Select Working Group

Instructions (Please Read!)

- WG802.1 Attendance
- WG802.3 Attendance
- WG802.11 Attendance
- WG802.15 Attendance
- WG802.16 Attendance
- WG802.18 Attendance
- WG802.19 Attendance
- WG802.20 Attendance
- WG802.21 Attendance

Change Affiliation

Ensure that you select correct working group (WG802.3)
Click the YELLOW bar to log attendance for this meeting.

**IEEE WG802.3 Attendance Log**

Inactive Meetings:
- □□□ You have not (yet) logged attendance
- ■■■ You have logged attendance

Active Meetings:
- Yellow: You may log attendance
- Green: You have logged attendance
Working Group Affiliation

You do not currently have an affiliation declared for this working group. Please enter your affiliation for "WG802.15" and click on "Submit" at the bottom of the page.

Affiliation: Select Organization

Other:

Note: Any text entered in "Other" will override any selection from the drop-down list.

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Project Affiliation

You do not currently have an affiliation declared for this project. Please enter your affiliation for "802.15.3c" and click on "Submit" at the bottom of the page.

Affiliation: Select Organization

Other:

Note: Any text entered in "Other" will override any selection from the drop-down list.
November 2008 specifics – 2

- You must attend 3 meeting days, and declare affiliation, to receive meeting credit
  - Our plenary meeting is 4 days in duration
  - You must log attendance for Thursday AFTERNOON (closing plenary) to get credit for that meeting day
  - You may also log attendance for Thursday MORNING, but it does not count toward meeting credit
# 802.3 Members (voters) p.1

<table>
<thead>
<tr>
<th>Abbas, Ghani</th>
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*in peril of losing membership*
## 802.3 Members (voters) p.2

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802.3 Members (voters) p.3

Kim, Yong
Kimura, Mitsunobu
Kipp, Scott
Kobayashi, Shoukei
Koenen, David
Kolesar, Paul
Kozaki, Seiji
Kramer, Glen
* Krishnamurthy, Subi
Kropp, Joerg
Kusano, Toshihiko
* Lackner, Hans
Lamb, Lowell D.
Landry, D. Matthew
Lapak, Jeff

Latchman, Ryan
Law, David
Lee, Dong-Soo
Lenkisch, Andreas
Leung, Raymond W. K.
Lin, Ru Jian
Lingle, Jr., Robert
Lott, James
Lynch, Jeffrey
Lynskey, Eric
Maggiolino, Joseph
Maguire, Valerie
Maki, Jeffery J.
Malpass, Trey
Mandin, Jeff

Marris, Arthur
Martin, Arlon
Mathey, Thomas
McClay, Phil
McCormack, Michael S.
McDonough, John
McGrath, Jim
McSorley, Greg
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Miao, Tremont
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* Moorwood, Andy
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<td>Stook, Christopher</td>
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<td>* Tomaszewski, Peter</td>
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<td>Toyoda, Hidehiro</td>
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### Potential Members (voters) p.1

<table>
<thead>
<tr>
<th>Agata, Akira</th>
<th>Fogg, Michael</th>
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<td>Alie, Stephen</td>
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# Potential Members (voters) p.2

| O’Mathuna, Padraig | Tipper, Alan |
| Panguluri, Sesha   | Tsai, James  |
| Parnaby, Gavin     | Umnov, Alexander |
| Pathak, Vijay      | Vanderlaan, Paul |
| Rhee, June-Koo (Kevin) | Way, Winston |
| Ring, William S.   | Wise, Jeffrey |
| Sayre, Edward      | Yashiki, Kenichiro |
| Shafai, Farhad     | Yasukawa, Masaki |
| Shin, Jong-Yoon    | Zivny, Pavel |
| Shioiri, Satomi    |                   |
| Southworth, Robert |                   |
| Sparrowhawk, Bryan |                   |
| Strong, Stephen    |                   |
| Taich, Dimitry     |                   |
| Tawa, Katsuhisa    |                   |

- **Requested to become member (Monday)**
- **Requested to become member (Thursday)**
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 consistent with the ANSI patent policy and 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.

25 March 2008
Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy. Participants:

- “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.

Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2:

- 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/guides/bylaws/sect6-7.html#6

IEEE-SA Standards Board Operations Manual

Material about the patent policy is available at
http://standards.ieee.org/board/pat/pat-material.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/board/pat/index.html

This slide set is available at http://standards.ieee.org/board/pat/pat-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.

25 March 2008
IEEE 802.3 Working Group
Treasurer’s Report

Brad Booth
Treasurer, IEEE 802.3 Working Group
bbooth@amcc.com
Treasurer’s Report

• Concentration banking
  – Accounts are held at Wachovia
  – Wachovia being acquired by Wells Fargo
  – Awaiting outcome of acquisition to determine impact to concentration banking
  – Funds are secure

• Account balance
  – May 2008 balance: $8769.37
  – Credits (Interest): $148.73
  – Debits (Gifts): $(304.91)
  – November 2008 balance: $8613.19
Standards Board highlights (p.1)

• September Standards board
  – NesCom recommendations approved
    • All LMSC PARs approved
  – RevCom recommendations approved
    • IEEE P802.1AX Link Aggregation standard approved
    • IEEE P802.3 Ethernet revision
  – ProCom items
    • External representatives
      – Approved by SASB
      – Doesn’t impact liaisons
    • Obligations and code of Ethics
      – Changes in ballot
      – Acknowledgment ongoing
Standards Board highlights (p.2)

• ProCom (cont)
  – Copyright
    • Changes in ballot
    • Acknowledgment ongoing
  – Study Group Guidelines Ad Hoc
    • Ongoing
  – Vote Change Ad Hoc
    • Ongoing

• AudCom
  – Working on Working Group P&P
  – Enforcement by random auditing

• PatCom
  – FAQ on ballot comments on lack of LoAs
LMSC EC Report (p.1)

• LMSC treasury
  – Operating reserve ~$1M expected after this meeting
  – Evaluating registration fee again
    • See some drop in attendance
  – Asset transfer to VeriLan
    • Networking equipment and projectors

• Non-North American meetings
  – Voted in July to meet in Geneva March 2011
    • Site inspection for Geneva and Singapore
    • Compiling budgets, available Tuesday
    • Wednesday 4-5 chairs meeting
    • Vote final choice from March 2011 Closing EC

• Disbanded IEEE 802.5 Working Group
  – Follows withdrawal of the IEEE 802.5 standards
• ISO JTC1/SC6 update
  – China will try to standardize WAPI standalone

• LMSC P&P
    • P&P and OM drafts now stable, vote at closing EC Friday
  – IEEE-SA AudCom now working on baseline Working Group P&P

• Consensus and dominance Ad Hoc
  – Developing guidance on
    • How to building consensus
    • How to avoid dominance

• Tutorials
  – None but will hold Consensus and dominance ad hoc
    • Tuesday 6:30 to 8
• Possible EC study Group on ‘White Space’
  – How to use ‘White Space’, recent FCC activity
• Reorganisation of plenary schedule
  – More time for Task Force work
• EU Green directives
LMSC Chair’s Meetings (CROCKETT)

- Monday 7-8pm How should 802 address “white space”? EC brainstorm… (Kraemer)
- Monday 8-9pm Reorganizing the plenary structure (Jeffree)

- Tuesday 9-noon reserved (Nikolich)
- Tuesday noon-1pm open
- Tuesday 1-2pm open
- Tuesday 3-5pm open
- Tuesday 6:30-8pm Forging consensus, addressing dominance (Thaler)
- Tuesday 8:00-10pm open

- Wed 9-noon open
- Wed noon-1pm open
- Wed 1-3pm 802 Task Force (Nikolich)
- Wed 3-4pm 802 future budget discussion (Hawkins)
- Wed 4-5pm prepare future nNA venue recommendations for EC decision (Rigsbee)

- Thursday 10-11am open
- Thursday 11am-1pm open
- Thursday 1-2pm open
- Thursday 5-7pm open
Project Authorization Requests

- IEEE P802.11 Revision PAR for IEEE Std 802.11-2007
- IEEE P802.11 Very High Throughput 60 GHz PAR
- IEEE P802.15.4f Amendment: Active RFID System PHY
- IEEE P802.15.4g Amendment: (PHY) for low data rate Wireless Neighborhood Area Networks (WNAN)
- IEEE P802.15.7 PHY and MAC standard for short-range wireless optical communication using visible light
- IEEE P802.20b MAC Bridging Support
- IEEE P802.21b Media Independent Handover Services - Extensions for Supporting Downlink Only Broadcast Technologies

- Comment need to be in by 5PM Tuesday
Continuing Agenda

• Liaison Reports
• IEEE 802.3 State of the Standard (Mr. Diab)
• Task Force & Study Group Reports
  – Maintenance (Mr. Diab)
    • IEEE P802.1AX (IEEE P802.3ax)
    • IEEE P802.3 (IEEE P802.3ay)
    • IEEE P802.3-2008/Cor 1 (IEEE 802.3bb)
    • IEEE P802.3bc
    • IEEE P802.3.1 (Frazier)
  – IEEE P802.3at (Mr. McCormack)
  – IEEE P802.3av (Mr. Kramer)
  – IEEE P802.3az (Mr. Bennett)
  – IEEE P802.3ba (Mr. D’Ambrosia)