Approved Minutes
IEEE 802.3 Ethernet Working Group PLENARY
Manchester Grand Hyatt, San Diego, CA USA
July 16-19, 2012
http://www.ieee802.org/3/minutes/jul12/index.html

MONDAY, July 16, 2012

ADMINISTRATIVE MATTERS

Call to order
Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 1:02 pm.

Welcome, introductions, and general announcements
Mr. Law introduced Mr. Wael William Diab, Vice Chair of IEEE 802.3, Mr. Steve Carlson, Executive Secretary of IEEE 802.3, Mr. Adam Healey, Secretary of IEEE 802.3, and Ms. Valerie Maguire, Treasurer of IEEE 802.3.

Mr. Law noted that Mr. Diab is the Chair of the IEEE 802.3 Maintenance Task Force. Mr. Law introduced Mr. Howard Frazier who is the Chair of the IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision) Task Force, Mr. John D'Ambrosia who is Chair of the IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force, Mr. Marek Hajduczenia who is chair of IEEE P802.3bk Extended EPON Task Force, and Mr. Dan Dove who is the chair of IEEE 802.3 Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group. Mr. Law also noted that Mr. Frazier is the Chair of the EPON Protocol over a Coax (EPoC) PHY Study Group and Mr. Carlson is the Chair of the Reduced Twisted Pair Gigabit Ethernet Study Group.

Mr. Law asked the attendees to introduce themselves and announce their affiliation.

Working Group Decorum
Mr. Law introduced the Working Group decorum as described in his opening report. Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

Mr. Law asked if anyone was attending from the press including those who would run a public blog on this meeting. None responded.

Mr. Law noted that there should be no recording or photography without permission.

Mr. Law noted that participants are required to register for this meeting and pay the meeting fee. Mr. Law also noted that participants must wear their badges in public areas at all times.

Review and approval of agenda

Mr. Law noted that a soft copy of the draft agenda had been posted to the minutes section for this meeting. Mr. Law gave the general minutes webpage for IEEE 802.3:

http://www.ieee802.org/3/minutes/

Mr. Law asked if there were any additions to the draft agenda. None responded.

MOTION #1

Approve the agenda.

M: S. Trowbridge
S: J. D'Ambrosia

Passed by voice vote without opposition 16-July-2012 1:17 pm

Approval of March 2012 minutes

Please see http://www.ieee802.org/3/minutes/mar12/minutes_0312.pdf.

Mr. Law asked if there were any additions or corrections to the March 2012 minutes. Mr. Law noted that the minutes were posted April 4, 2012.

MOTION #2

Approve March 2012 Plenary Meeting minutes.

M: K. Lusted
S: S. Carlson

Passed by voice vote without opposition 16-July-2012 1:18 pm

Call for patents

Please see
https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf.

Mr. Law reviewed the patent policy with the Working Group.

Mr. Law asked if anyone had or was aware of any essential IP or had a letter of assurance, and no one came forth. Mr. Law asked that Mr. Healey record that:

- No letters of assurance were submitted
- The patent policy, per the latest PatCom slide set, was read
- Anyone wishing to submit a letter of assurance can do so at any time by contacting Mr. Law or the PatCom administrator

Mr. Law reminded the group of inappropriate topics that should not be discussed. These included territory, market share, price, ongoing litigation, threatened litigation, etc.

Please also see
http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

General Working Group business

Published Standards
Mr. Law discussed the latest IEEE 802.3 standards and drafts. Mr. Law noted the Get IEEE 802 URL. Mr. Law listed the current documents for this meeting, including the current revision.

IEEE Std 802.3™-2008 (26 Dec 08 / 26 Dec 08)*
- IEEE Std 802.3av™-2009 (11 Sep 09 / 30 Oct 09)*
- IEEE Std 802.3bc™-2009 (11 Sep 09 / 28 Sep 09)*
- IEEE Std 802.3at™-2009 (11 Sep 09 / 30 Oct 09)*
- IEEE Std 802.3-2008/Cor1-2009™ (9 Dec 09 / 1 Feb 10)*
- IEEE Std 802.3ba™-2010 (17 Jun 10 / 22 Jun 10)*
- IEEE Std 802.3az™-2010 (30 Sep 10 / 27 Oct 10)*
- IEEE Std 802.3bg™-2011 (31 Mar 11 / 31 Mar 11)*
- IEEE Std 802.3bf™-2011 (16 May 11 / 15 Jul 11)*
- IEEE Std 802.3bd™-2011 (16 Jun 11 / 10 Aug 11)*

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: Dates are Approval date / Publication date

Working Group activities since March 2012 meeting
Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

14th through 18th May 2012 Minneapolis, MN, USA
- IEEE 802.3 Maintenance Task Force
- IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIB (Revision) Task Force
- IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force
- IEEE 802.3bk Extended EPON Task Force
- IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc
- IEEE 802.3 Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group
- IEEE 802.3 EPON Protocol over a Coax (EPoC) PHY Study Group
- IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group

IEEE 802.3 Ballots since the Last Plenary
Mr. Law noted the IEEE 802.3 ballots since the last meeting. Below is a summary of the ballots and ballot invitations that Mr. Law showed and they can be found in opening slides.

Working Group Ballots:
- IEEE P802.3.1 (IEEE 802.3.1a) 1st recirculation

Sponsor Ballots:
- IEEE P802.3 (IEEE 802.3bh) 2nd recirculation

Sponsor Ballot group formations
- None

Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

Documents
Mr. Law went over the current WG documents for this meeting's business.

IEEE P802.3 (IEEE 802.3bh) Maintenance #10 (Revision)
- IEEE P802.3/D3.2 (second Sponsor recirculation ballot) and ballot comments

IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision)
- IEEE P802.3.1/D1.1 (first Working Group recirculation ballot) and ballot comments

Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group
- 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, draft 5 Criteria and draft Objectives

EPON Protocol over a Coax (EPoC) PHY Study Group
- IEEE P802.3bn Amendment: Physical Layer Specifications and Management Parameters for Ethernet Passive Optical Networks Protocol over Coax Networks draft PAR, draft 5 Criteria and draft Objectives

IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc
- IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc report draft D1.2

Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

Attendance procedures, tool, books and address/e-mail list maintenance
Mr. Law explained the membership requirements (gaining and retaining)
- 75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)
- Request to become member during IEEE 802.3 potential voter agenda item

- Maintain valid contact information
- Participate in 2 of last 3 WG ballots

Please see http://ieee802.org/3/rules/index.html for complete information.

Mr. Law emphasized that declaration of affiliation is a requirement to obtain credit for meeting attendance.

Mr. Law stated that the IEEE 802.3 Working Group will record meeting attendance using the IEEE-SA Meeting Attendance Tool.

Mr. Healey reminded participants that, to use the tool, one must have an IEEE Web Account. Mr. Healey presented a tutorial on how to acquire an IEEE Web Account and how to use the IEEE-SA Meeting Attendance tool.

Please see http://ieee802.org/3/minutes/mar12/0312_imat.pdf.

Mr. Healey reminded participants to verify that the contact information in their IEEE Web Account current and correct. To maintain voting status, contact information must be up-to-date.

Mr. Healey also reminded participants of the requirement to declare affiliation for this meeting and that this requirement is enforced by the meeting attendance tool.

Central Desktop – Christina Boyce
Ms. Boyce presented an overview of the features of Central Desktop.
Please see https://mentor.ieee.org/etools_documentation/dcn/12/etools_documentation-12-0008-00-CDSK-cd-intro-presentation.pdf

Reflectors and WG information
Mr. Law reviewed the reflector policy, the process for subscribing and unsubscribing to the reflector, and the web site.

Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

Review of voting membership
Please see http://www.ieee802.org/3/minutes/jul12/0712_voters.pdf.

Review of voters in peril
Please see http://www.ieee802.org/3/minutes/jul12/0712_peril.pdf.

Request for membership
Please see http://www.ieee802.org/3/minutes/jul12/0712_potential.pdf.

Mr. Law went through the Potential Voters list. Mr. Healey recorded the respondents.

Abaye, Ali

Allard, Michel
Brophy, Timothy
Brown, Kevin
Cheng, Wheling
Donahue, Curtis
Farhoodfar, Arash
Heath, Jeffrey
Hou, Victor
Jiang, Wenbin
Jimenez, Andrew
Kim, Yong
Kolze, Tom
Kosanovich, Keith
Matsuda, Shougo
Mcdermott, Thomas
Mei, Richard
Mellitz, Richard
Montreuil, Leo
Rahman, Saifur
Ressl, Michael
Salinger, Jorge
Solomon, Joe
Sugawa, Jun
Ulm, John
Valle, Stefano
Wagner, Robert
Winkel, Ludwig
Zambell, Andrew
Zimmerman, George

IEEE 802.3 Treasurer's report – Valerie Maguire
Please see http://ieee802.org/3/minutes/jul12/0712_treasury.pdf.

Standards Board report (March and June meetings)
Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

LMSC Executive Committee report
Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

EC Meetings for the week
Mr. Law reviewed the schedule of EC meetings for the July 2012 plenary week.

Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

Other 802 PARs under consideration this week (comments due by 17:00 Tuesday)

New PARs
- IEEE P802.11aj WLAN amendment: Very High Throughput for China frequency bands PAR and 5C
- IEEE P802.16q Air Interface for BWA Systems amendment: Multi-tier Networks PAR and 5C
- IEEE P802.16.3 Mobile Broadband Network Performance Measurements PAR and 5C

Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_opening_plenary.pdf.

Mr. Law asked if anyone was interested in reviewing and possibly commenting on any of the new PARs. None responded.

Liaison Reports

External Liaison reports

TIA TR-42 report – Valerie Maguire
Please see
http://www.ieee802.org/3/minutes/jul12/incoming/Jul%202012%20TIA%20Liaison%20Presentation.pdf.

External Liaison letters

IEC SC 46C: Generic specification for Twinax cables letter
Mr. Law chartered the Maintenance Task Force to review the letter and generate a response and/or recommended actions for consideration at the closing plenary.

ITU-T SG15: OTNT Standardization Work Plan liaison letter and draft plan – Steve Trowbridge
Mr. Law appointed Mr. Trowbridge to chair an ad hoc to review the letter and generate a response and/or recommended actions for consideration at the closing plenary. Mr. Trowbridge noted that a similar work plan exists for access technologies. Mr. Law chartered Mr. Hadjuczenia and Mr. Frazier to review the plan and recommended actions for consideration at the closing plenary.

OIF: CEI-28G-VSR Project letter and draft dated 19th March 2012
Mr. Law noted that this is an information item as the letter was directed to the Next Generation 100 Gb/s Optics Study Group.

OIF: CEI-28G-VSR Project letter and draft dated 15th May 2012
Mr. Law noted that this is an information item as the letter was directed to the Next Generation 100 Gb/s Optics Study Group.

OIF: CEI-56G-VSR liaison letter and project start proposal
Mr. Law appointed John D'Ambrosia and Steve Trowbridge to review the letter and generate a response and/or recommended actions for consideration at the closing plenary.

OIF: MLG Project liaison letter and draft
Mr. Law appointed John D'Ambrosia and Steve Trowbridge to review the letter and generate a response and/or recommended actions for consideration at the closing plenary.

OIF: Multi-link Gearbox (MLG) 2.0 Project liaison letter and project start proposal
Mr. Law chartered the Next Generation 100 Gb/s Optics Study Group to review the letter and generate a response and/or recommended actions for consideration at the closing plenary.

<u>Internal Liaison reports</u>

IEEE 802.18 and ITU Joint Coordination Activity on Smart Grid and Home Networking
Mr. Law reported on the last meeting that he attended on behalf of the IEEE and announced the next meeting. Mr. Thompson reported that he was looking for someone who is interested in attending the meeting. Mr. Law asked anyone who wants more information on this topic to please contact Mr. Thompson.

Break at approximately 3:07 pm. Restarted at approximately 3:27 pm.

STATE OF THE STANDARD
Please see http://ieee802.org/3/minutes/jul12/0712_state_of_std.pdf.

<u>IEEE 802.3 Maintenance – Wael Diab</u>
Please see http://ieee802.org/3/minutes/jul12/0712_maint_open_report.pdf.

<u>Joint ITU/IEEE 802.3 workshop – Wael Diab</u>
Please see http://ieee802.org/3/minutes/jul12/0712_joint_workshop_open_report.pdf.
   - Also see http://www.ieee802.org/3/minutes/jul12/IEEE%20and%20ITU%20Joint%20Meeting%20Framework%20rev%203.pdf.
   - Also see http://www.ieee802.org/3/minutes/jul12/Abstracts%20rev%203%20for%20Ethernet%20WG.pdf.

TASK FORCE AND STUDY GROUP REPORTS

<u>IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision) Task Force – Howard Frazier</u>
Please see http://ieee802.org/3/minutes/jul12/0712_1a_open_report.pdf.

<u>IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force – John D'Ambrosia</u>

Please see http://ieee802.org/3/minutes/jul12/0712_bj_open_report.pdf.

There was discussion regarding the extension of EEE functionality to legacy 40 Gb/s interfaces and 10 physical lane 100 Gb/s copper interfaces. The discussion also covered the process used to decide whether or not to do so.

IEEE P802.3bk Extended EPON Study Group
Please see http://ieee802.org/3/minutes/jul12/0712_bk_open_report.pdf.

IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc – John D'Ambrosia
Please see http://ieee802.org/3/minutes/jul12/0712_bwa_open_report.pdf.

IEEE 802.3 Higher Speed Ethernet consensus industry connection activity – John D'Ambrosia
Please see http://ieee802.org/3/minutes/jul12/0712_hseic_open_report.pdf.

There was some discussion about the process for initiating Industry Connections efforts within 802.

IEEE 802.3 Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group
Please see http://ieee802.org/3/minutes/jul12/0712_ng100goptx_open_report.pdf.

IEEE 802.3 EPON Protocol over a Coax (EPoC) PHY Study Group – Howard Frazier
Please see http://ieee802.org/3/minutes/jul12/0712_epoc_open_report.pdf.

IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group – Steve Carlson
Please see http://ieee802.org/3/minutes/jul12/0712_rtpge_open_report.pdf.

CALLS FOR INTEREST

Next Generation BASE-T – Bill Woodruff
Please see http://ieee802.org/3/minutes/jul12/0712_ngbaset_open_report.pdf.

FUTURE MEETINGS, ROOM ASSIGNMENTS, AND SUBGROUP SCHEDULES
Mr. Carlson reviewed the future meeting plan. Please see
http://ieee802.org/3/minutes/jul12/0712_meetings_open.pdf.

Please see http://ieee802.org/3/minutes/jul12/0712_rooms.pdf for room assignments.

ADJOURN

MOTION #3

Motion to adjourn.

M: J. D'Ambrosia
S: S. Trowbridge

Passed by voice vote without opposition 16-July-2012 5:33 pm

Adjourned.

THURSDAY, July 19, 2012

ADMINISTRATIVE MATTERS

Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 1:00 pm.

Welcome, introductions, and general announcements
Mr. Law introduced Mr. Wael William Diab, Vice Chair of IEEE 802.3, Mr. Steve Carlson, Executive Secretary of IEEE 802.3, Mr. Adam Healey, Secretary of IEEE 802.3, and Ms. Valerie Maguire, Treasurer of IEEE 802.3.

Mr. Law noted that Mr. Diab is the Chair of the IEEE 802.3 Maintenance Task Force. Mr. Law introduced Mr. Howard Frazier who is the Chair of the IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision) Task Force, Mr. John D'Ambrosia who is Chair of the IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force, Mr. Marek Hajduczenia who is chair of IEEE P802.3bk Extended EPON Task Force, and Mr. Dan Dove who is the chair of IEEE 802.3 Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group. Mr. Law also noted that Mr. Frazier is the Chair of the EPON Protocol over a Coax (EPoC) PHY Study Group and Mr. Carlson is the Chair of the Reduced Twisted Pair Gigabit Ethernet Study Group.

Mr. Law asked the attendees to introduce themselves and announce their affiliation.

Working Group Decorum
Mr. Law also introduced the Working Group decorum as described in his closing report. Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_close_plenary.pdf.

Mr. Law asked if anyone was attending from the press including those who would run a public blog on this meeting. None responded.

Mr. Law noted that there should be no recording or photography without permission.

Mr. Law noted that participants are required to register for this meeting and pay the meeting fee. Mr. Law also noted that participants must wear their badges in public areas at all times.

Approval of the Agenda

Mr. D'Ambrosia requested the Higher Speed Ethernet industry connections activity follow the BWA report and Mr. Law modified the agenda accordingly.

MOTION #1

Motion to approve the agenda.

M: K. Lusted
S: J. D'Ambrosia

Passed by voice vote without opposition 19-July-2012 1:13 pm

Call for patents
Please see
https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf.

Mr. Law asked if anyone had not seen the patent slides during the meeting week. None responded.

Mr. Law asked if anyone had or was aware of any essential IP or had a letter of assurance, and no one came forth. Mr. Law asked that Mr. Healey record that:
- No letters of assurance were submitted
- Anyone wishing to submit a letter of assurance can do so at any time by contacting Mr. Law or the PatCom administrator

Mr. Law reminded the group of inappropriate topics that should not be discussed. These included territory, market share, price, ongoing litigation, threatened litigation, etc. and read the slides. Please see
http://www.ieee802.org/3/minutes/jul12/0712_802_3_close_plenary.pdf.

General WG business

Reflectors and WG information
Mr. Law reviewed the reflector policy, the process for subscribing and unsubscribing to the reflector, and the web site.

Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_close_plenary.pdf.

Membership and Attendance
Mr. Law reminded participants that attendance is being recorded by the IEEE-SA Meeting Attendance tool. Mr. Law noted that attendance must be logged for the afternoon closing plenary session to get credit for the Thursday meeting

Review of voting membership

Please see http://www.ieee802.org/3/minutes/jul12/0712_voters.pdf.

Review of voters in peril
Please see http://www.ieee802.org/3/minutes/jul12/0712_peril.pdf.

Request for membership
Please see http://www.ieee802.org/3/minutes/jul12/0712_potential.pdf.

Mr. Law went through the Potential Voters list. Mr. Healey recorded the respondents.

Boyd, Edward
Chang, Fuhlim
Dai, Eugene
Jain, Rajeev
Jewell, Jack
Prodan, Richard

LMSC Executive Committee items
Please see http://www.ieee802.org/3/minutes/jul12/0712_802_3_close_plenary.pdf.

Mr. Law gave an update in the topics being discussed at the LMSC EC.

External liaison letters

IEC SC 46C: Generic specification for Twinax cables liaison letter response
This will be covered as part of the IEEE 802.3 Maintenance closing report.

ITU-T SG15: OTNT Standardization Work Plan liaison letter response – Steve Trowbridge
Mr. Trowbridge reviewed the draft of the liaison letter response.

MOTION #2

Move that 802.3 approve the text in trowbridge_01_1207.pdf, with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the 802.3 working group to ITU-T Study Group 15. This liaison communication will be sent after the 30th August 2012 IEEE-SA Standards Board meeting with adjustments made by the Chair (or his appointed agent) as necessary based on actual SASB results and before the beginning of the ITU-T Study Group 15 plenary on 10th September 2012.

M: S. Trowbridge
S: D. Remein

Technical ($\geq$ 75%)

Y: 93, N: 0, A: 9

Passed 19-July-2012 1:45 pm

ITU-T SG15: ANT standards work plan liaison letter – Marek Hajduczenia
Mr. Hajduczenia reviewed the draft of the liaison letter.

MOTION #3

Move that IEEE 802.3 approve the text in hajduczenia_01_1207_R1.pdf, with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 working group to ITU-T Study Group 15.

This liaison communication will be sent after the 30th August 2012 IEEE-SA Standards Board meeting with adjustments made by the Chair (or his appointed agent) as necessary based on actual SASB results and before the beginning of the ITU-T Study Group 15 plenary on 10th September 2012.

M: M. Hajduczenia
S: H. Frazier

Technical ($\geq$ 75%)

Y: 97, N: 0, A: 5

Passed 19-July-2012 1:53 pm

OIF: CEI-56G-VSR Project, liaison letter response
This agenda item will be covered after the Higher Speed Ethernet industry connections activity report.

OIF: Multi-link Gearbox (MLG) Project liaison letter response
This agenda item will be covered after the Higher Speed Ethernet industry connections activity report.

OIF: Multi-link Gearbox (MLG) 2.0 Project liaison letter response
This agenda item will be covered after the Higher Speed Ethernet industry connections activity report.

Future meetings – Steve Carlson
Please see http://www.ieee802.org/3/minutes/jul12/0712_meetings_close.pdf.

There was some discussion regarding the schedule for the September 2012 interim meeting in Geneva and the location of future plenary meetings.

Straw poll: Should IEEE 802 plenary be held in Hawaii?
The chair observed a 2:1 ratio of those that believe an IEEE 802 plenary should be held in Hawaii versus those that believe it should not.

REPORTS

Joint ITU/IEEE 802.3 workshop – Wael Diab
Please see http://ieee802.org/3/minutes/jul12/0712_joint_workshop_close_report.pdf.

IEEE 802.3/.1 Joint meeting – Wael Diab
Please see
http://www.ieee802.org/3/minutes/jul12/0712_joint_802d1_802d3_close_report.pdf.

IEEE 802.3 Maintenance – Wael Diab
Please see http://www.ieee802.org/3/minutes/jul12/0712_maint_close_report.pdf.

MOTION #4

Request that the IEEE 802.3 Working Group Chair submit IEEE P802.3 (802.3bh) to RevCom for the IEEE-SA Standards Board August 2012 RevCom agenda per the IEEE 802 LMSC conditional approval procedures.

M: W. Diab on behalf of the Task Force

Technical ($\geq 75\%$)
Y: 92, N: 0, A: 9

Passed 19-July-2012 2:26 pm

Mr. Diab reviewed the generic specification for Twinax cables liaison letter response to IEC SC 46C.

MOTION #5

Approve the liaison response to IEC SC 46C regarding specification for Twinax cables as captured in liaison_response_to_IEC_SC48C_0712.pdf with appropriate editorial license to the Chair or his designee.

M: W. Diab on behalf of the Task Force

Technical (≥ 75%)
Y: 95, N: 0, A: 7

Passed 19-July-2012 2:31 pm

IEEE P802.3.1 (IEEE 802.3.1a) Ethernet MIBs (revision) Task Force – Howard Frazier
Please see http://ieee802.org/3/minutes/jul12/0712_1a_close_report.pdf.

MOTION #6

Grant conditional approval to progress IEEE Draft P802.3.1a to IEEE 802 LMSC sponsor ballot once the working group ballot process has been successfully completed.

M: H. Frazier
S: P. Anslow

Technical (≥ 75%)
Y: 113, N: 0, A: 2

Passed 19-July-2012 2:42 pm

IEEE P802.3bj 100 Gb/s Backplane and Copper Task Force – John D'Ambrosia
Please see http://ieee802.org/3/minutes/jul12/0712_bj_close_report.pdf.

MOTION #7

Approve the following changes to IEEE P802.3bj PAR:

- Change Scope to read:
  "The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add 100 Gb/s 4 lane Physical Layer (PHY) specifications and management parameters for operation on backplanes and twinaxial copper cables, and specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100 Gb/s operation over backplanes and copper cables."
- Add an additional note to section 8.1 of the PAR:
  "The amendment will comply with IEEE Std 802, IEEE Std 802.1D, and IEEE Std 802.1Q."

M: J. D'Ambrosia on behalf of the Task Force

Technical ($\geq$ 75%)
Y: 106, N: 0, A: 3

Passed 19-July-2012 2:51 pm

MOTION #8

Move that 802.3 approve the new objectives to IEEE P802.3bj Task Force objectives, as per 0712_bj_close_report.pdf.

M: J. D'Ambrosia on behalf of the Task Force

Technical ($\geq$ 75%)
Y: 108, N: 0, A: 3

Passed 19-July-2012 2:53 pm

MOTION #9

Move that 802.3 approve the revisions to IEEE P802.3bj Task Force 5 Criteria Responses, as per 0712_bj_close_report.pdf.

M: J. D'Ambrosia on behalf of the Task Force

Technical ($\geq$ 75%)
Y: 102, N: 0, A: 10

Passed 19-July-2012 2:58 pm

MOTION #10

Move that the 802.3 Working Group chair pre-submit the revised PAR and 5 Criteria to the 802 Executive Committee for consideration at the November 2012 Plenary Session.

M: J. D'Ambrosia
S: P. Anslow

Technical ($\geq$ 75%)
Y: 110, N: 0, A: 4

Passed 19-July-2012 3:01 pm

Break at approximately 3:02 pm. Restarted at approximately 3:21 pm.

IEEE P802.3bk Extended EPON Study Group
Please see http://ieee802.org/3/minutes/jul12/0712_bk_close_report.pdf.

IEEE 802.3 Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group
Please see http://ieee802.org/3/minutes/jul12/0712_ng100goptx_close_report.pdf.

Mr. Dove presented the proposed project objectives, 5 criteria responses, and draft PAR to the group.

MOTION #11

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group Objectives, per "0712_ng100goptx_close_report."

M: D. Dove
S: P. Anslow

Technical ($\geq$ 75%)
Y: 114, N: 0, A: 1

Passed 19-July-2012 3:49 pm

MOTION #12

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group Broad Market Potential Criterion, per "0712_ng100goptx_close_report."

M: D. Dove
S: P. Anslow

Technical ($\geq$ 75%)
Y: 113, N: 0, A: 0

Passed 19-July-2012 3:50 pm

MOTION #13

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group Compatibility Criterion, per "0712_ng100goptx_close_report."

M: D. Dove
S: P. Anslow

Technical ($\geq$ 75%)
Y: 107, N: 0, A: 0

Passed 19-July-2012 3:52 pm

MOTION #14 (AMENDED BY MOTION #15)

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group Distinct Identity Criterion, per "0712_ng100goptx_close_report."

M: D. Dove
S: P. Anslow

Technical ($\geq$ 75%)
Y: 108, N: 0, A: 1

Passed 19-July-2012 3:59 pm

Mr. D'Ambrosia offered an amendment to Motion #15.

MOTION #15 TO AMEND #14

Amend the Distinct Identity Criterion:
2. The proposed 100 Gb/s SMF PHY(s) would use four 25 Gb/s electrical interconnect lanes in each direction <u>not currently defined in IEEE Std 802.3.</u>

M: J. D'Ambrosia
S: B. Booth

Technical (> 75%)

Passed by voice vote without opposition 19-July-2012 3:58 pm

MOTION #16

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group Technical Feasibility Criterion, per "0712_ng100goptx_close_report."

M: D. Dove
S: P. Anslow

Technical (> 75%)
Y: 109, N: 0, A: 0

Passed 19-July-2012 4:00 pm

MOTION #17

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group Economic Feasibility Criterion, per "0712_ng100goptx_close_report."

M: D. Dove
S: P. Anslow

Technical (> 75%)
Y: 110, N: 0, A: 1

Passed 19-July-2012 4:02 pm

MOTION #18

Move that 802.3 approve the Next Generation 40 Gb/s and 100 Gb/s Study Group PAR, per http://www.ieee802.org/3/100GNGOPTX/P802_3bm_PAR_190712.pdf.

M: D. Dove
S: P. Anslow

Technical ($\geq$ 75%)
Y: 110, N: 0, A: 0

Passed 19-July-2012 4:04 pm

MOTION #19

Move that 802.3 Working Group submit the IEEE P802.3bm PAR and 5 Criteria to the 802 Executive Committee for consideration at the July 2012 Plenary Session.

M: D. Dove
S: P. Anslow

Technical ($\geq$ 75%)
Y: 110, N: 0, A: 1

Passed 19-July-2012 4:06 pm

MOTION #20

Moved that 802.3 Extend the "Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Study Group.

M: D. Dove
S: P. Anslow

> 50%
Y: 110, N: 0, A: 2

Passed 19-July-2012 4:09 pm

Mr. Law expressed his gratitude to Mr. Dove for leading the Study Group.

Mr. Law announced he will appoint Mr. Dan Dove as chair of the P802.3bm Task Force should the project be approved by the IEEE-SA Standards Board.

IEEE 802.3 EPON Protocol over a Coax (EPoC) PHY Study Group – Howard Frazier
Please see http://ieee802.org/3/minutes/jul12/0712_epoc_close_report.pdf.

Mr. Frazier presented the proposed project objectives, 5 criteria responses, and draft PAR to the group.

MOTION #21

Approve the IEEE P802.3bn EPoC PHY Project Objectives.

M: H. Frazier
S: M. Laubach

Technical ($\geq$ 75%)
Y: 97, N: 0, A: 4

Passed 19-July-2012 4:30 pm

Discussion of Motion #21:
There was a discussion of the frame error ratio objective and its relationship to IEEE 802 Overview and Architecture.

MOTION #22

Approve the IEEE P802.3bn EPoC PHY response to the Broad Market Potential criterion.

M: H. Frazier
S: M. Laubach

Technical ($\geq$ 75%)
Y: 97, N: 0, A: 3

Passed 19-July-2012 4:32 pm

MOTION #23

Approve the IEEE P802.3bn EPoC PHY response to the Compatibility criterion .

M: H. Frazier
S: M. Laubach

Technical ($\geq$ 75%)
Y: 95, N: 0, A: 3

Passed 19-July-2012 4:33 pm

MOTION #24

Approve the IEEE P802.3bn EPoC PHY response to the Distinct Identity criterion.

M: H. Frazier
S: M. Laubach

Technical (≥ 75%)
Y: 101, N: 0, A: 2

Passed 19-July-2012 4:35 pm

MOTION #25

Approve the IEEE P802.3bn EPoC PHY response to the Technical Feasibility criterion.

M: H. Frazier
S: M. Laubach

Technical (≥ 75%)
Y: 99, N: 0, A: 2

Passed 19-July-2012 4:36 pm

MOTION #26

Approve the IEEE P802.3bn EPoC PHY response to the Economic Feasibility criterion.

M: H. Frazier
S: M. Laubach

Technical (≥ 75%)
Y: 105, N: 0, A: 2

Passed 19-July-2012 4:38 pm

MOTION #27

Approve the IEEE P802.3bn EPoC PHY PAR.

M: H. Frazier
S: M. Laubach

Technical ($\geq$ 75%)
Y: 105, N: 0, A: 2

Passed 19-July-2012 4:40 pm

MOTION #28

Extend the EPoC PHY Study Group until the next plenary session.

M: H. Frazier on behalf of the Study Group

> 50%
Y: 107, N: 0, A: 1

Passed 19-July-2012 4:42 pm

Mr. Law expressed his gratitude to Mr. Frazier for leading the Study Group.

Mr. Law announced he will appoint Mr. Mark Laubach as chair of the P802.3bn Task Force should the project be approved by the IEEE-SA Standards Board.

IEEE 802.3 Reduced Twisted Pair Gigabit Ethernet Study Group – Steve Carlson
Please see http://ieee802.org/3/minutes/jul12/0712_rtpge_close_report.pdf.

Mr. Law left the room temporarily. Mr. Diab assumed the working group Chair in his absence. Mr. Law returned and resumed responsibility after approximately 10 minutes.

MOTION #29

Move that IEEE 802.3 extend the Reduced Twisted Pair Gigabit Ethernet PHY Study Group.

M: S. Carlson on behalf of the Study Group

> 50%
Y: 94, N: 0, A: 0

Passed 19-July-2012 4:51 pm

Call for Interest: Next Generation BASE-T – Bill Woodruff
Please see http://ieee802.org/3/minutes/jul12/0712_ngbaset_close_report.pdf.

> **MOTION #30**
>
> Request that IEEE 802.3 WG form a study group to develop a PAR and 5 Criteria for:
> **Next Generation BASE-T PHY**
>
> M: B. Woodruff
> S: D. Chalupsky
>
> > 50%
> Y: 85, N: 4, A: 7
>
> Passed 19-July-2012 4:56 pm

Mr. Law announced he will appoint Mr. Bill Woodruff as chair of the Next Generation
BASE-T PHY Study Group should the Study Group be approved by the IEEE 802 EC.

IEEE 802.3 Ethernet Bandwidth Assessment Ad Hoc – John D'Ambrosia
Please see http://ieee802.org/3/minutes/jul12/0712_bwa_close_report.pdf.

> **MOTION #31**
>
> Move the following:
> - Approve and issue BWA_Report_D1p2.pdf.
> - IEEE 802.3 request the IEEE 802 EC to request ICCom to terminate the "Ethernet
>   Wireline Bandwidth Needs" Industry Connections Activity, based upon the
>   completion of its deliverables.
>
> M: J. D'Ambrosia
> S: P. Anslow
>
> Technical ($\geq$ 75%)
> Y: 87, N: 0, A: 2
>
> Passed 19-July-2012 5:09 pm

There was some discussion as the actions that would result from this motion. Mr. Remein
offered a friendly amendment to Motion #31:
"Approve and issue BWA_Report_D1p2.pdf."

Mr. D'Ambrosia recognized Mr. Anslow for his contributions as editor of the BWA
report.

IEEE 802.3 Higher Speed Ethernet consensus industry connection activity – John D'Ambrosia
Please see http://ieee802.org/3/minutes/jul12/0712_hseic_close_report.pdf.

MOTION #32

Move that:
- IEEE 802.3 working group endorses the Higher Speed Ethernet Consensus ICAID (ec-12-0033-01-00ec.pdf).
- The IEEE 802.3 Chair requests the IEEE 802 EC endorse the Higher Speed Ethernet Consensus ICAID (ec-12-0033-01-00ec.pdf).

M: J. D'Ambrosia
S: P. Anslow

> 50%
Y: 77, N: 0, A: 3

Passed 19-July-2012 5:24 pm.

There was discussion about the Industry Connections program and scope of the proposed Industry Connections group.

Mr. Law stated his intent to operate the Higher Speed Ethernet Consensus ICAID as an ad hoc of the IEEE 802.3 Working Group and appoint Mr. D'Ambrosia as chair.

Mr. D'Ambrosia then presented a proposed letter to the ITU-T SG15 to notify them of the completion of the work of the BWA ad hoc, the availability of the report, and the formation of the HSE consensus Industry Connections activity (contingent on approval).

MOTION #33

Move that IEEE 802.3 approve the text in liaison_itu_0712.pdf, with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 working group to ITU-T Study Group 15. This liaison communication will be sent after the completion of the IEEE-SA Standards Board HSE Industry Connections ballot with adjustments made by the Chair (or his appointed agent) as necessary based on the IEEE-SA Standards Board ballot results.

M: J. D'Ambrosia
S: P. Anslow

Technical ($\geq 75\%$)
Y: 69, N: 0, A: 3

Passed 19-July-2012 5:31 pm.

OIF: CEI-56G-VSR Project, liaison letter response
OIF: Multi-link Gearbox (MLG) Project liaison letter response
OIF: Multi-link Gearbox (MLG) 2.0 Project liaison letter response

Mr. D'Ambrosia presented a single proposed liaison response letter to the OIF.

MOTION #34

Move that IEEE 802.3 approve the text in liaison_oif_0712.pdf, with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 working group to ITU-T Study Group 15. This liaison communication will be sent after the completion of the IEEE-SA Standards Board HSE Industry Connections ballot with adjustments made by the Chair (or his appointed agent) as necessary based on the IEEE-SA Standards Board ballot results.

M: J. D'Ambrosia
S: S. Trowbridge

Technical ($\geq 75\%$)

Passed by voice without opposition 19-July-2012 5:33 pm.

OTHER BUSINESS

Mr. Law asked if there was any other business. None responded.

ADJOURN

MOTION #35

Motion to adjourn.

M: J. D'Ambrosia
S: S. Trowbridge

Procedural ($> 50\%$)

Passed by voice vote without opposition 19-July-2012 5:34 pm

Adjourned.