

Approved Minutes
IEEE 802.3 Ethernet Working Group interim
Salt Lake City, UT, USA
23 May, 2019

<http://www.ieee802.org/3/minutes/may19/index.html>

THURSDAY, 23 MAY, 2019

Minutes were taken by IEEE 802.3 Recording Secretary Pete Anslow.

ADMINISTRATIVE MATTERS

Call to order

Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 6:30 pm. Mr. Law announced that the meeting had quorum as it had been publicly announced at least 45 days in advance.

Welcome, introductions, and general announcements

Mr. Law asked the attendees to introduce themselves and announce their affiliation. Mr. Law also showed a list of officers of the IEEE 802.3 Working Group:

IEEE 802.3 Chair: David Law

IEEE 802.3 Vice-Chair: Adam Healey

IEEE 802.3 Secretary: Pete Anslow

IEEE 802.3 Executive Secretary: Steve Carlson

IEEE 802.3 Treasurer: Valerie Maguire

IEEE 802.3 Task Force chairs

- IEEE P802.3ca 25 Gb/s and 50 Gb/s EPON: Curtis Knittle
- IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet: George Zimmerman
- IEEE P802.3ch Multi-Gig Automotive Ethernet PHY: Steve Carlson
- IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Beth Kochuparambil
- IEEE P802.3cm 400 Gb/s over Multimode Fiber: Robert Lingle
- IEEE P802.3cn 50 Gb/s, 200 Gb/s, and 400 Gb/s over SMF: John D'Ambrosia
- IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs: Frank Effenberger
- IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13): Chad Jones
- IEEE P802.3cr Isolation (Maintenance #14): Jon Lewis
- IEEE P802.3cs Ethernet access PMDs for central office consolidation (Super-PON): Claudio DiSanti
- IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force: John D'Ambrosia

- IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength: Mark Nowell

IEEE 802.3 Study Group chairs

- IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson

Working Group Decorum

Mr. Law introduced the Working Group decorum as described in the interim slides. Please see http://www.ieee802.org/3/minutes/may19/0519_802_3_interim.pdf.

Mr. Law asked if anyone was attending from the press including those who would run a public blog on this meeting. There was no response.

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 minutes webpage for this meeting:

<http://www.ieee802.org/3/minutes/may19/index.html>

MOTION #1

Approve the agenda.

M: J. Lewis

S: S. Trowbridge

Procedural (> 50%)

Passed by voice vote without opposition 23-May 2019, 6:38pm

Call for patents

Please see <http://standards.ieee.org/board/pat/pat-slideset.pdf>.

Mr. Law asked if anyone was unfamiliar with the IEEE patent policy. No one responded.

Mr. Law asked if anyone had or was aware of any essential IP or had a letter of assurance. There was no response.

Mr. Law asked that Mr. Anslow record that:

- No letters of assurance were submitted
- The patent policy, per the latest PatCom slide set, was shown
- 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.

Mr. Law reviewed the participation slide.

Please see http://www.ieee802.org/3/minutes/may19/0519_802_3_interim.pdf.

General Working Group business

Membership and attendance recording

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

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

Review of voting membership

Please see http://www.ieee802.org/3/minutes/may19/0519_voters.pdf.

Mr. Law reminded participants that the IEEE 802.3 Working Group would record meeting attendance using the IEEE-SA Meeting Attendance Tool.

Mr. Law pointed out that a document containing details of whether WG members have voted on recent WG ballots is available at:

http://www.ieee802.org/3/ballots/ballot_returns.pdf.

LIAISONS

External Liaison letters (old)

ITU-T SG15: Access Network Transport (ANT) Standards Overview and Work Plan
[liaison letter](#)

ITU-T SG15: Home Network Transport (HNT) Standards Overview and Work Plan
[liaison letter](#)

ITU-T SG15: ANT and HNT documents [liaison letter](#)

ITU-T SG9: ITU-T SG9 to ITU-T SG15 on the HNT Standards Overview and Work Plan
[liaison letter](#)

ITU-T SG15: OTNT standardization work plan [liaison letter](#) and [attachment](#)

Consideration of the above five liaison letters was deferred from the November 2018 and January 2019 meetings due the alignment of the ITU-T SG15 and IEEE 802.3 meeting schedules.

Mr. Hajduczenia presented a proposed liaison response to ITU-T SG15. Please see: http://iee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_SG15_ANT_0519_draft.pdf.

Mr. Grow presented a proposed liaison response to ITU-T SG15. Please see: http://iee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_SG15_HNT_0519_draft.pdf.

Mr. Trowbridge presented a proposed liaison response to ITU-T SG15. Please see: http://iee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_SG15_OTNT_0519_draft.pdf.

Minor changes were made to the text of the draft liaisons.

MOTION #2

Move that 802.3 approve:

[IEEE_802d3_to_SG15_ANT_0519_draft.pdf](#)

[IEEE_802d3_to_SG15_HNT_0519_draft.pdf](#)

[IEEE_802d3_to_SG15_OTNT_0519_draft.pdf](#)

with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ITU-T SG15.

M: D. Remein

S: M. Hajduczenia

Technical ($\geq 75\%$)

Y: 57, N 0, A: 4

Passed 23-May 2019, 6:57pm

External Liaison letters (new)

3GPP: RoHC utilization for Ethernet header compression [liaison letter](#), [attachment 1](#) and [attachment 2](#)

Update to RoHC utilization for Ethernet header compression [liaison letter](#)

Mr. Law presented a proposed liaison response to 3GPP in response to the two letters above generated in conjunction with the IEEE NEA Ad Hoc. Please see:

http://iee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_3GPP_0519_draft.pdf.

MOTION #3

Move that the IEEE 802.3 Working Group approve:
IEEE_802d3_to_3GPP_0519_draft
with editorial license granted to the Chair (or his appointed agent) as a liaison
communication from the IEEE 802.3 Working Group to 3GPP.

M: P. Anslow

S: K. Dube

Technical ($\geq 75\%$)

Y: 60, N 0, A: 0

Passed 23-May 2019, 7:03pm

ISO/IEC JTC1 SC25: Single pair cabling [liaison letter](#)

Mr. Zimmerman stated that this liaison letter had been considered by the IEEE P802.3cg Task Force and no response was necessary.

ISO/IEC JTC1 SC25: ISO/IEC TR 11801-9909 25Gbs over distances up to 50 m and higher [liaison letter](#)

Mr. Carlson stated that this liaison letter had been considered by the IEEE P802.3ch Task Force and no response was necessary.

ITU-T SG15: Test results for spectral excursion [liaison letter](#)

Mr. Anslow stated that this liaison letter had been considered by the IEEE P802.3ct Task Force and a response to ITU-T SG15 was not required at this time.

ODCC: Next Generation Ethernet connections for datacenter networks in China [liaison letter](#)

Mr. Lewis presented a proposed liaison response to ODCC generated by the NEA Ad Hoc. Please see:

http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_ODCC_0519_draft.pdf.

MOTION #4

Move that the IEEE 802.3 Working Group approve:
IEEE_802d3_to_ODCC_0519_draft
with editorial license granted to the Chair (or his appointed agent) as a liaison
communication from the IEEE 802.3 Working Group to ODCC.

M: J. Lewis

S: G. Zimmerman

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 7:19pm

OIF: 400ZR Interop Project [liaison letter](#) and [attachment](#)

Mr. Anslow stated that this liaison letter had been considered by the IEEE P802.3ct Task Force and that due to the alignment of the OIF and IEEE 802.3 meeting schedules, any response to this liaison would be deferred until the July plenary meeting.

OIF: Progress on OIF CEI-112G-VSR and CEI-112G-LR projects [liaison letter](#) and [attachment](#)

Ms. Kochuparambil stated that this liaison letter had been considered by the IEEE P802.3ck Task Force and that due to the alignment of the OIF and IEEE 802.3 meeting schedules, any response to this liaison would be deferred until the July plenary meeting.

IEEE 802.3 Maintenance – Adam Healey

Mr. Healey presented two proposed liaisons to ISO/IEC JTC 1/SC 6. Please see:
http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_1_0519_draft.pdf.
http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_2_0519_draft.pdf.

MOTION #5

Approve:

IEEE_802d3_to_ISOIEC_JTC1_SC6_1_0519_draft.pdf

IEEE_802d3_to_ISOIEC_JTC1_SC6_2_0519_draft.pdf

with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ISO/IEC JTC 1/SC 6.

M: A. Healey

S: S. Carlson

Technical ($\geq 75\%$)

Y: 63, N 0, A: 0

Passed 23-May 2019, 7:33pm

IEEE P802.3cb 2.5Gb/s and 5 Gb/s Backplane Task Force – Brett McClellan on behalf of Dan Smith

Mr. Law recognized Mr. McClellan for his contribution to the development of IEEE Std 802.3cb-2018.

Mr. McClellan in turn also recognized several other 802.3 WG members for their contributions to the IEEE P802.3cb project.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet Task Force – Mark Nowell

Mr. Law recognized Mr. Nowell for his contribution to the development of IEEE Std 802.3cd-2018.

Mr. Nowell in turn recognized several other 802.3 WG members for their contributions to the IEEE P802.3cd project.

At this point Mr. Nowell asked if there was any objection to adding an additional agenda item concerning an Ethernet Alliance Award. There was no objection.

Ethernet Alliance recognition

Mr. Nowell presented Pete Anslow an “Editor Extraordinaire” award on behalf of the Ethernet Alliance. Mr. Law asked if there was any objection to pictures being taken of the presentation. There was no objection. There was a round of applause.

IEEE P802.3ca 25 Gb/s and 50 Gb/s Ethernet Passive Optical Networks Task Force – Curtis Knittle

Please see http://ieee802.org/3/minutes/may19/0519_ca_report.pdf.

Mr. Knittle noted that no changes had been made to the IEEE P802.3ca draft compared to the preview version.

MOTION #6

Move that the IEEE 802.3 Working Group progress the IEEE P802.3ca draft to Working Group ballot.

M: C. Knittle

S: D. Remein

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 7:58pm

IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force – George Zimmerman

Mr. Zimmerman presented a proposed liaison to ISO/IEC SC25 WG3 and a second proposed liaison to TIA TR-42. Please see:

http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_ISOIEC_SC25_WG3_0519_draft.pdf.

http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_TIA_TR42_0519_draft.pdf.

MOTION #7

Move that the IEEE 802.3 Working Group approve:

IEEE_802d3_to_ISOIEC_SC25_WG3_0519_draft

IEEE_802d3_to_TIA_TR42_0519_draft

with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ISO/IEC SC25 WG3 and TIA TR-42.

M: J. Lewis

S: G. Zimmerman

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 8:02pm

IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force – Steve Carlson

Please see http://www.ieee802.org/3/minutes/may19/0519_ch_report.pdf.

Mr. Carlson noted that no changes had been made to the P802.3ch draft compared to the preview version.

MOTION #8

Move that the IEEE 802.3 Working Group progress the IEEE P802.3ch draft to Working Group ballot.

M: S. Carlson

S: N. Wienckowski

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 8:04pm

Mr. Carlson presented a proposed liaison to IEEE P370. Please see:

http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_P370_0519_draft.pdf.

MOTION #9

Move that the IEEE 802.3 Working Group approve IEEE_802d3_to_P370_0519_draft with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to IEEE P370.

M: S. Carlson

S: J. Lewis

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 8:07pm

IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force – Mabud Choudhury on behalf of Robert Lingle

Mr. Choudhury presented a proposed liaison to INCITS T11.2. Please see:

http://ieee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_T11-2_0519_draft.pdf.

MOTION #10

Move that the IEEE 802.3 Working Group approve IEEE_802d3_to_T11-2_0519_draft with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to INCITS T11.2.

M: M. Choudhury

S: T. Palkert

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 8:09pm

IEEE P802.3cn 50 Gb/s, 200 Gb/s, and 400 Gb/s over SMF Task Force – Pete Anslow on behalf of John D'Ambrosia

Mr. Anslow presented a proposed liaison response to IEC SC86A. Please see: http://iee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_IEC_3cn_0519_draft.pdf.

MOTION #11

Move that the IEEE 802.3 Working Group approve IEEE_802d3_to_IEC_3cn_0519_draft with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to IEC SC86A.

M: P. Anslow

S: G. Thompson

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 8:14pm

IEEE 802.3 IEEE SCC18 Ad Hoc – Chad Jones

Please see http://www.iee802.org/3/minutes/may19/0519_SCC18_report.pdf.

Mr. Jones presented a proposed liaison to IEEE SCC18 generated by the IEEE 802.3 IEEE SCC18 Ad Hoc. Please see:

http://iee802.org/3/minutes/may19/outgoing/IEEE_802d3_to_SCC18_0519_draft.pdf.

MOTION #12

Move that the IEEE 802.3 Working Group approve IEEE_802d3_to_SCC18_0519_draft with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to the IEEE SCC18.

M: C. Jones

S: G. Thompson

Technical ($\geq 75\%$)

Y: 52, N 0, A: 0

Passed by voice vote without opposition 23-May 2019, 8:29pm

MOTION #13

Move that the IEEE 802.3 Working Group grant the SCC18 ad hoc the authority to give guidance to IEEE SCC18 by July 19, 2019 for setting the IEEE position for TIAs 1438 and 1444.

M: C. Jones

S: G. Thompson

Technical ($\geq 75\%$)

Passed by voice vote without opposition 23-May 2019, 8:30pm

Announcements

Mr. Law announced that going forward Ad Hoc calls for the IEEE P802.3cn Task Force would be interim meetings of the Task Force rather than Ad Hocs.

Other business

None.

ADJOURN**MOTION #14**

Move to adjourn.

M: D. Remein

S: C. DeSanti

Procedural ($> 50\%$)

Passed by voice vote without opposition 23-May 2019, 8:35pm

Adjourned.

The list of participants for this meeting (including employers and affiliations) can be found at:

http://ieee802.org/3/minutes/may19/0519_WG_attendance.pdf

The next meeting of the IEEE 802.3 Working Group will be on Monday 15th July 2019, at the Austria Center Vienna, 1 Bruno-Kreisky-Platz, Wien, Austria.