

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group interim**  
**Geneva, Switzerland**  
**25 January, 2018**

<http://www.ieee802.org/3/minutes/jan18/index.html>

**THURSDAY, 25 JANUARY, 2018**

Minutes were taken by 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 7:03 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 P802.3bs 400 Gb/s Ethernet: John D'Ambrosia
- IEEE P802.3bt DTE Power via MDI over 4-Pair: Chad Jones
- IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s EPON: Curtis Knittle
- IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane: Dan Smith
- IEEE P802.3cc 25 Gb/s Ethernet PMD(s) over single-mode fiber: David Lewis
- IEEE P802.3cd 50Gb/s, 100 Gb/s, and 200 Gb/s Ethernet: Mark Nowell
- IEEE P802.3.2 (IEEE 802.3cf) YANG data models: Yan Zhuang
- IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet: George Zimmerman
- IEEE P802.3ch Multi-Gig Automotive Ethernet PHY: Steve Carlson

IEEE 802.3 Study Group chairs

- IEEE 802.3 Beyond 10 km optical PHYs Study Group: John D'Ambrosia
- IEEE 802.3 10 Mb/s Backplane Ethernet Study Group: Jon Lewis
- IEEE 802.3 100 Gb/s per Lane Electrical Study Group: Beth Kochuparambil
- IEEE 802.3 Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Study Group: Robert Lingle

## **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the interim slides. Please see [http://www.ieee802.org/3/minutes/jan18/0118\\_802\\_3\\_interim.pdf](http://www.ieee802.org/3/minutes/jan18/0118_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 must wear their badges in public areas at all times.

## **Recognition**

Mr. Law congratulated George Zimmerman, Rich Mellitz, and Glen Kramer on receiving the IEEE standards medallion.

## **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/jan18/>

### **MOTION #1**

Approve the agenda.

M: J. Lewis

S: M. Hajduczenia

Procedural (> 50%)

Passed by voice vote without opposition 25-Jan 2018, 7:18pm

## **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/jan18/0118\\_802\\_3\\_interim.pdf](http://www.ieee802.org/3/minutes/jan18/0118_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/jan18/0118\\_voters.pdf](http://www.ieee802.org/3/minutes/jan18/0118_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](http://www.ieee802.org/3/ballots/ballot_returns.pdf).

## **LIAISONS**

### **External Liaison reports**

*ISO/IEC SC25/WG3 report* – Alan Flatman

Mr. Flatman announced that he was retiring from standards participation and could no longer serve as a liaison officer between IEEE 802.3 and ISO/IEC JTC1 SC25 WG3.

Several members expressed their thanks and appreciation for Alan's long service as liaison officer between the two groups. There was a round of applause.

#### **MOTION #2**

Move that the IEEE 802.3 Ethernet Working Group authorizes James Withey as ISO/IEC JTC1 SC25 WG3 liaison officer.

M: A. Flatman

S: C. DiMinico

Procedural (> 50%)

Y: 62, N 0, A: 0

Passed 25-Jan 2018, 7:34pm

Mr. Flatman reviewed a proposed liaison to ISO/IEC JTC1 SC25 WG3. Please see:  
[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_ISO-IEC\\_SC25\\_WG3\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_ISO-IEC_SC25_WG3_0118_draft.pdf).

**MOTION #3**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_ISO-IEC\_SC25\_WG3\_0118\_draft.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to ISO/IEC JTC1 SC25 WG3.

M: A. Flatman

S: C. DiMinico

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 25-Jan 2018, 7:38pm

**External Liaison letters (old)**

*ITU-T SG15: Timing performance due to Ethernet PHY [liaison letter](#)*

Mr. Ran reviewed a proposed liaison response to ITU-T SG15 generated by the IEEE 802.3 Timing performance Ad Hoc. Please see:  
[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_SG15\\_timing\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_SG15_timing_0118_draft.pdf).

Minor changes were made to the draft liaison.

**MOTION #4**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_SG15\_timing\_0118\_draft.doc with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to ITU-T SG15.

M: A. Ran

S: S. Trowbridge

Technical ( $\geq 75\%$ )

Y: 55, N 0, A: 1

Passed 25-Jan 2018, 7:59pm

**External Liaison letters (new)**

*Broadband Forum: EPON-specific YANG Model [liaison letter](#)*

Mr. Law noted that this liaison would be dealt with under the IEEE P802.3.2 (IEEE 802.3cf) agenda item.

*Broadband Forum: YANG model for CFM OAM [liaison letter](#)*

Mr. Law noted that this liaison would be dealt with under the IEEE P802.3.2 (IEEE 802.3cf) agenda item.

*ITU-T SG5: Ethernet port isolation [liaison letter](#)*

Mr. Law noted that this liaison letter was being considered by the IEEE 802.3 Isolation Ad Hoc and a response, if appropriate, will be reviewed at the March meeting.

*ITU-T SG15: Coordination on IM/DM for OAM [liaison letter](#)*

Mr. Law noted that this liaison would be dealt with under the IEEE P802.3.2 (IEEE 802.3cf) agenda item.

*MEF: Subscriber Layer 1 Connectivity Service (LICS) Attributes [liaison letter](#) and [attachment](#)*

Mr. Nowell reviewed a proposed liaison response to MEF. Please see: [http://iee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_MEF\\_0118\\_draft.pdf](http://iee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_MEF_0118_draft.pdf).

#### **MOTION #5**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_MEF\_0118\_draft.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to MEF.

M: M. Nowell

S: S. Trowbridge

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 25-Jan 2018, 8:05pm

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

Mr. Law announced that this liaison had been assigned to the IEEE 802.3 Beyond 10km Optical PHYs Study Group for consideration. Mr. Ofelt responded on behalf of Mr. D'Ambrosia that since OIF do not meet again until April, a response, if appropriate, will be reviewed at the March meeting.

*OIF: CEI-112G Project Scopes & Objectives [liaison letter](#)*

Mr. Law announced that this liaison had been assigned to the IEEE 802.3 100 Gb/s per Lane Electrical Study Group for consideration and that since OIF do not meet again until April, a response, if appropriate, will be reviewed at the March meeting.

*OIF: Progress on OIF CEI-56G project [liaison letter](#)*

Mr. Law announced that this liaison had been assigned to the IEEE 802.3cd Task Force. Mr. Nowell noted that since the OIF has now published a new version of their CEI document containing these interfaces, no response was necessary.

#### **External Liaison letter (new, information item)**

*OIF: Progress on OIF CEI-56G-MR-PAM, CEI-56G-LR-PAM and CEI-56G-VSR-PAM projects [liaison letter](#) and [attachment](#)*

This letter was addressed to the P802.3bs and P802.3cd task forces and copied to the 802.3 Working Group for information.

**Future meetings – David Law on behalf of Steve Carlson**

Mr. Law reviewed the upcoming meetings.

**IEEE 802.3 Maintenance – Adam Healey**

Mr. Healey reviewed a proposed liaison to ISO/IEC JTC 1/SC 6. Please see:

[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_ISOIEC\\_JTC1\\_SC6\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_ISOIEC_JTC1_SC6_0118_draft.pdf).

**MOTION #6**

Approve IEEE\_802d3\_to\_ISOIEC\_JTC1\_SC6\_0118\_draft.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ISO/IEC JTC 1/SC 6.

M: A. Healey

S: G. Thompson

Technical ( $\geq 75\%$ )

Y: 56, N 0, A: 0

Passed 25-Jan 2018, 8:15pm

**MOTION #7**

Submit IEEE Std 802.3bs-2017 and IEEE Std 802.3cc-2017 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement.

M: A. Healey on behalf of the IEEE 802.3 Maintenance Task Force

Technical ( $\geq 75\%$ )

Y: 61, N 0, A: 0

Passed 25-Jan 2018, 8:17pm

**IEEE P802.3.2 (IEEE 802.3cf) YANG Data models Task Force – Yan Zhuang**

Please see [http://ieee802.org/3/minutes/jan18/0118\\_cf\\_report.pdf](http://ieee802.org/3/minutes/jan18/0118_cf_report.pdf).

Ms. Zhuang reviewed the changes made to the IEEE P802.3.2(IEEE 802.3cf) draft compared to the preview version.

**MOTION #8**

Move that the IEEE 802.3 Working Group progress the IEEE P802.3.2(IEEE 802.3cf) draft to Working Group ballot.

M: Y. Zhuang

S: M. Hajduczenia

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 25-Jan 2018, 8:22pm

Ms. Zhuang reviewed a proposed liaison to the ITU-T SG15. Please see:

[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_SG15\\_YANG\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_SG15_YANG_0118_draft.pdf).

Ms. Zhuang reviewed a proposed liaison to the BBF. Please see:

[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_BBF\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_BBF_0118_draft.pdf).

Minor changes were made to the draft liaisons.

**MOTION #9**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_SG15\_YANG\_0118\_draft.doc and IEEE\_802d3\_to\_BBF\_0118\_draft.doc, with editorial change license granted to the WG chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to ITU-T SG15 and BBF.

M: Y. Zhuang

S: D. Remein

Technical ( $\geq 75\%$ )

Y: 55, N 0, A: 0

Passed 25-Jan 2018, 8:30pm

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

Mr. Zimmerman reviewed a proposed liaison to TIA TR42. Please see:

[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_TIA\\_TR42\\_10SPE\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_TIA_TR42_10SPE_0118_draft.pdf).

Mr. Zimmerman reviewed a proposed liaison to the ISO IEC SC25 WG3. Please see:

[http://ieee802.org/3/minutes/jan18/outgoing/IEEE\\_802d3\\_to\\_ISOIEC\\_SC25\\_WG3\\_10SPE\\_0118\\_draft.pdf](http://ieee802.org/3/minutes/jan18/outgoing/IEEE_802d3_to_ISOIEC_SC25_WG3_10SPE_0118_draft.pdf)

Minor changes were made to the draft liaisons.

**MOTION #10**

Move that the IEEE 802.3 Working Group approve:  
IEEE\_802d3\_to\_TIA\_TR42\_10SPE\_0118\_draft.pdf  
IEEE\_802d3\_to\_ISOIEC\_SC25\_WG3\_10SPE\_0118\_draft.pdf  
with editorial license granted to the Chair (or his appointed agent) as liaison  
communications from the IEEE 802.3 Working Group to TIA TR42 and ISO IEC SC25  
WG3, respectively.

M: G. Zimmerman

S: A. Flatman

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 25-Jan 2018, 8:37pm

**Announcements**

Mr. McClellan announced on behalf of Mr. Smith that the IEEE P802.3cb Task Force would be holding a contingent out-of-cycle teleconference interim meeting during the week of 26th March.

Mr. Healey announced that the IEEE Std 802.3-2015 (IEEE 802.3cj) Maintenance #12 Task Force would be holding a contingent out-of-cycle teleconference interim meeting after the March plenary.

Mr. Nowell announced that the P802.3cd Task Force may hold a co-located interim on Sunday 4 March and Monday 5 March at the Hyatt Regency O'Hare, Rosemont, IL, USA.

**Other business**

None

**ADJOURN****MOTION #11**

Move to adjourn.

M: D. Remein

S: J. Lewis

Procedural ( $> 50\%$ )

Passed by voice vote without opposition 25-Jan 2018, 8:41pm

Adjourned.

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



[http://ieee802.org/3/minutes/jan18/0118\\_WG\\_attendance.pdf](http://ieee802.org/3/minutes/jan18/0118_WG_attendance.pdf)

The next meeting of the IEEE 802.3 Working Group will be on Monday 5th March 2018, at the Hyatt Regency O'Hare, Rosemont, IL, USA.