

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Bangkok, Thailand**  
**November 12 to 15, 2018**

<http://www.ieee802.org/3/minutes/nov18/index.html>

**MONDAY, 12 NOVEMBER, 2018**

Minutes were taken by 802.3 Recording Secretary Pete Anslow.

**ADMINISTRATIVE MATTERS**

**Call to order**

Mr. Adam Healey, Vice-Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 10:00 am on behalf of Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group who was temporarily unavailable. Mr. Healey announced that the meeting had quorum as it was being held in conjunction with a plenary session.

Welcome, introductions, and general announcements

Mr. Healey asked the attendees to introduce themselves and announce their affiliation. Mr. Healey 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 P802.3bt 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 P802.3cd 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 P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force: Beth Kochuparambil
- IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force: Robert Lingle
- IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over SMF and DWDM Task Force: John D'Ambrosia
- IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force: Chad Jones
- IEEE P802.3cr Isolation (Maintenance #14) Task Force: Jon Lewis

IEEE 802.3 Study Group chairs

- IEEE 802.3 Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs: Frank Effenberger
- IEEE 802.3 Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON): Claudio DeSanti

### **Working Group Decorum**

Mr. Healey introduced the Working Group decorum as described in the opening report. Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_opening_plenary.pdf).

Mr. Healey asked if anyone was attending from the press including those who would run a public blog on this meeting other than those limited to summarizing the meeting outcomes. There was no response.

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

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

### **Review and approval of agenda**

Mr. Healey noted that a soft copy of the draft agenda had been posted to the minutes section for this meeting. Mr. Healey gave the general minutes webpage for IEEE 802.3: <http://www.ieee802.org/3/minutes/>

Mr. Healey asked if there were any additions to the draft agenda. There was no response.

#### **MOTION #1**

Approve the agenda.

M: J. Lewis

S: E. Kochuparambil

Procedural (> 50%)

Passed by voice vote without opposition 12-Nov 2018, 10:14am

### **Approval of July 2018 and September 2018 minutes**

Please see [http://www.ieee802.org/3/minutes/jul18/0718\\_minutes\\_draft.pdf](http://www.ieee802.org/3/minutes/jul18/0718_minutes_draft.pdf) and [http://www.ieee802.org/3/minutes/sep18/0918\\_minutes\\_draft.pdf](http://www.ieee802.org/3/minutes/sep18/0918_minutes_draft.pdf).

Mr. Healey asked if there were any additions or corrections to the July 2018 minutes which were posted on 20 July 2018. Mr. Healey also asked if there were any additions or corrections to the September 2018 minutes which were posted on 15 September 2018.

## **MOTION #2**

Approve July 2018 plenary meeting minutes and the September 2018 interim meeting minutes.

M: C. Jones

S: M. Dudek

Procedural (> 50%)

Passed by voice vote without opposition 12-Nov 2018, 10:15 am

## **Call for patents**

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

Mr. Healey reviewed the IEEE patent policy. No one responded.

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

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

Mr. Healey reviewed the participation slide.

Please also see

[http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_opening_plenary.pdf).

## **General Working Group business**

### Interim meetings since the July 2018 meeting

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_opening_plenary.pdf).

13th August 2018, Teleconference

- IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force
- Hosted by Cisco

10th to 14th September 2018, Spokane, WA, USA

- IEEE 802.3 interim meeting series
- Hosted by Dell EMC

9th October 2018, Teleconference

- IEEE P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet Task Force
- Hosted by Cisco

Mr. Healey expressed his thanks to the hosts of the various interim meetings. There was a round of applause.

#### Attendance procedures, tool, books and e-mail list maintenance

Mr. Healey 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 to retain membership
- Maintain valid contact information
- Consistent declaration of affiliation

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

Mr. Anslow reminded participants that the IEEE 802.3 Working Group would record meeting attendance using the IEEE-SA Meeting Attendance Tool and that declaration of affiliation is a requirement to obtain credit for meeting attendance. Mr. Anslow noted that a presentation giving details of the attendance procedure is available at:

[http://ieee802.org/3/minutes/nov18/1118\\_imat.pdf](http://ieee802.org/3/minutes/nov18/1118_imat.pdf).

#### Review of voting membership

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_voters.pdf](http://www.ieee802.org/3/minutes/nov18/1118_voters.pdf).

Mr. Healey also noted that the voter's affiliations are shown in the IEEE 802.3 membership list. Please see

[http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_membership\\_list.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_membership_list.pdf).

#### Review of voters in peril

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_peril.pdf](http://www.ieee802.org/3/minutes/nov18/1118_peril.pdf).

Mr. Healey pointed out that the list of voters in peril also showed "departing voters" who were voters with an attendance record such that they would not be voters after this session.

#### Request for membership

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_potential.pdf](http://www.ieee802.org/3/minutes/nov18/1118_potential.pdf).

Mr. Healey went through the Potential Voters list. Mr. Anslow recorded the respondents:

Baggett, Tim

Fu, Shiyong

Rechtman, Zvi

Ben-Artzi, Liav

Marques, Flavio

Mr. Healey noted that 802.3 voters now have this status indicated on their badges and that those who had just requested membership should obtain a replacement badge prior to the closing plenary meeting.

## **IEEE 802.3 Treasurer's report – Valerie Maguire**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_treasury.pdf](http://ieee802.org/3/minutes/nov18/1118_treasury.pdf).

## **IEEE 802 Executive Committee report**

This item was deferred pending the availability of Mr. Law.

## **Other 802 PARs under consideration this week (comments due by 18:30 Tuesday)**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_agenda\\_open.pdf](http://www.ieee802.org/3/minutes/nov18/1118_agenda_open.pdf).

### New standards PARs

- IEEE P802.1DF Time-Sensitive Networking Profile for Service Provider Networks [PAR](#) and [CSD](#)
- IEEE P802.1DG Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet [PAR](#) and [CSD](#)

### New Recommended Practice PAR:

- IEEE P802.19 Coexistence Methods for Sub-1 GHz Frequency Bands, [PAR](#) and [CSD](#)

### Amendment project PARs

- IEEE P802.1CMde Enhancements for Fronthaul Interface and Synchronization [PAR](#) and [CSD](#)
- IEEE P802.11bc Enhanced Broadcast Service (eBCS) [PAR](#) and [CSD](#)
- IEEE P802.11bd Next Generation V2X [PAR](#) and [CSD](#)

### PAR Extension requests

- IEEE P802.22 Cognitive Radio Wireless Regional Area Networks (WRAN) MAC and PHY revision [PAR](#)
- IEEE P802.22.3 Spectrum Characterization and Occupancy Sensing new standard [PAR](#)

Mr. Healey announced that Mr. Grow had kindly offered to chair an Ad Hoc to review these PARs and submit comments on behalf of the Working Group. Mr. Grow had provided draft comments on some of the proposed PARs in:

[http://www.ieee802.org/3/email\\_dialog/msg00845.html](http://www.ieee802.org/3/email_dialog/msg00845.html)

## **LIAISONS**

### **External Liaison reports**

*ISO/IEC SC25/WG3 Update report – James Withey*

Please see

[http://www.ieee802.org/3/minutes/nov18/1118\\_SC25\\_WG3\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/nov18/1118_SC25_WG3_report_to_802d3.pdf).

At this point, Mr. Law took over as chair of the meeting.

*TIA TR-42 report – Valerie Maguire*

Please see

[http://www.ieee802.org/3/minutes/nov18/1118\\_TIA\\_TR-42\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/nov18/1118_TIA_TR-42_report_to_802d3.pdf).

### **IEEE 802 Executive Committee report**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_opening_plenary.pdf).

### EC Meetings for the week

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

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_opening_plenary.pdf).

### **External Liaison letters (new)**

*COBO: Specification availability* liaison letter

Mr. Law appointed the P802.3cm Task Force to review the letter and generate a response, if appropriate, for consideration at the closing plenary.

*ISO/IEC JTC1/SC25: Appointment of liaison officer to IEEE 802.3* liaison letter

Mr. Law noted that this item had been covered as part of the ISO/IEC SC25/WG3 Update report.

ITU-T JCA-IMT2020 Invitation to update the IMT2020 roadmap [liaison letter](#)

Consideration of this liaison letter was deferred until the January 2019 meeting due the alignment of the ITU-T JCA-IMT2020 and IEEE 802.3 meeting schedules.

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

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

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

Consideration of the above three liaison letters was deferred until the May 2019 meeting due the alignment of the ITU-T SG15 and IEEE 802.3 meeting schedules.

*ITU-T SG15: IEEE 802.3cb 2.5 Gb/s specification* [liaison letter](#) and [attachment](#)  
(password protected)

Mr. Law appointed the P802.3ck Task Force to review the letter and generate a response, if appropriate, for consideration at the closing plenary.

*ITU-T SG15: Work on G.709.3 and G.698.2* [liaison letter](#) and [attachments](#) (password protected)

Mr. Law appointed the P802.3cn Task Force to review the letter and generate a response, if appropriate, for consideration at the closing plenary.

*ITU-T SG15: Coordination of Ethernet information and data modelling work* [liaison letter](#)

Mr. Law appointed the P802.3.2 (IEEE 802.3cf) Task Force to review the letter and generate a response, if appropriate, for consideration at the closing plenary.

*MEF: MEF 63 and operator LI service attributes [liaison letter](#)*

Mr. Law appointed the Maintenance Task Force to review the letter and generate a response, if appropriate, for consideration at the closing plenary.

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

Mr. Law appointed the P802.3cn Task Force to review the letter and generate a response, if appropriate, for consideration at the closing plenary.

### **IEEE 802.3 Rules – Adam Healey**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_rules\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_rules_open_report.pdf).

### **IEEE 802.3 Maintenance – Adam Healey**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_maint\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_maint_open_report.pdf).

## **TASK FORCE AND STUDY GROUP REPORTS**

### **IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force – Chad Jones**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_bt\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_bt_open_report.pdf).

### **IEEE P802.3ca 25 Gb/s, 50 Gb/s and 100 Gb/s EPON Task Force – Curtis Knittle**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_ca\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_ca_open_report.pdf).

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

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cb\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cb_open_report.pdf).

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

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cd\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cd_open_report.pdf).

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

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cf\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cf_open_report.pdf).

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

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cg\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cg_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_ch\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/nov18/1118_ch_open_report.pdf).

### **IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force – Beth Kochuparambil**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_ck\\_open\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_ck_open_report.pdf).

**IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force – Robert Lingle**

Please see [http://iee802.org/3/minutes/nov18/1118\\_cm\\_open\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_cm_open_report.pdf).

**IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over SMF and DWDM Task Force – John D’Ambrosia**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_cn\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/nov18/1118_cn_open_report.pdf).

**IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force – Chad Jones**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_cq\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/nov18/1118_cq_open_report.pdf).

**IEEE P802.3cr Isolation (Maintenance #14) Task Force – Jon Lewis**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_cr\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/nov18/1118_cr_open_report.pdf).

**IEEE 802.3 Bidirectional 10Gb/s and 25Gb/s optical access PHYs Study Group – Frank Effenberger**

Please see [http://iee802.org/3/minutes/nov18/1118\\_bidi\\_open\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_bidi_open_report.pdf).

**IEEE 802.3 Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Study Group – Claudio DeSanti**

Please see [http://iee802.org/3/minutes/nov18/1118\\_spon\\_open\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_spon_open_report.pdf).

**IEEE 802.3 New Ethernet Applications Industry Connection Ad Hoc – John D’Ambrosia**

Please see [http://iee802.org/3/minutes/nov18/1118\\_NEA\\_open\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_NEA_open_report.pdf).

**CALL FOR INTEREST**

**IEEE 802.3 100 Gb/s Lambda call for interest – Mark Nowell**

Please see [http://iee802.org/3/minutes/nov18/1118\\_100G\\_lambda\\_open\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_100G_lambda_open_report.pdf).

**ROOM ASSIGNMENTS, AND SUBGROUP SCHEDULES**

Mr. Carlson noted that details of the rooms for the various meetings and Ad Hocs were available via the 802.3 web page.

**ADJOURN**

No other items of business were presented.



**MOTION #3**

Move to adjourn.

M: J. Lewis

S: C. Jones

Procedural (> 50%)

Passed by voice vote 12-Nov 2018, 12:14 pm

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Bangkok, Thailand**  
**November 12 to 15, 2018**

<http://www.ieee802.org/3/minutes/nov18/index.html>

**THURSDAY, 15 NOVEMBER, 2018**

Minutes were taken by 802.3 Recording Secretary Pete Anslow.

**ADMINISTRATIVE MATTERS & GENERAL BUSINESS**

**Call to order**

Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 1:01 pm. Mr. Law announced that the meeting had quorum as it was being held in conjunction with a plenary session.

**Welcome, introductions, and general announcements**

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

Mr. Law also showed a list of the officers of the Working Group. Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_closing_plenary.pdf).

**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/nov18/1118\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_closing_plenary.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.

Mr. Law emphasized that attendees should observe proper decorum in meetings.

## Approval of the Agenda

### MOTION #1

Motion to approve the agenda.

M: M. Hajduczenia

S: J. D' Ambrosia

Procedural (> 50%)

Passed by voice vote without opposition 15-Nov 2018, 1:11 pm

### Call for patents

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

Mr. Law asked if anyone had not seen the patent slides during the meeting week. No one 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 Mr. Anslow to 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 showed the slides. Please see

[http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_closing_plenary.pdf).

Mr. Law reviewed the participation slide.

### GENERAL WORKING GROUP BUSINESS

#### Membership and Attendance

Mr. Law reminded participants that attendance is recorded via 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/nov18/1118\\_voters.pdf](http://www.ieee802.org/3/minutes/nov18/1118_voters.pdf).

#### Review of voters in peril

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_peril.pdf](http://www.ieee802.org/3/minutes/nov18/1118_peril.pdf).

#### Request for membership

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_potential.pdf](http://www.ieee802.org/3/minutes/nov18/1118_potential.pdf).

Mr. Law went through the Potential Voters list. Mr. Anslow recorded the respondents:

Dalmia, Kamal

Lu, Yuchun

Pardo, Carlos

### **IEEE 802 Executive Committee items**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/nov18/1118_802_3_closing_plenary.pdf).

### **IEEE 802 Task Force meeting**

Mr. Law summarized the IEEE 802 Task Force meeting.

### **Other IEEE 802 PARs**

Mr. Grow briefly reported on the outcome of the Ad Hoc to review the 802 PARs. Please see: [http://ieee802.org/3/minutes/nov18/1118\\_PARs\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_PARs_report.pdf).

Mr. Law noted that, since there was no further input offered from the Working Group (beyond the comments generated by the Ad Hoc chaired by Mr. Grow), he would vote on the PARs considered by the EC this week based on the discussion at the EC meeting.

### **External liaison letters (new)**

#### COBO: Specification availability liaison letter

Mr. Law noted that this item would be covered as part of the IEEE P802.3ck Task Force closing report.

#### ITU-T SG15: IEEE 802.3cb 2.5 Gb/s specification liaison letter and attachment

Mr. Law noted that this item would be covered as part of the IEEE P802.3ck Task Force closing report.

#### ITU-T SG15: Work on G.709.3 and G.698.2 liaison letter and attachment

Mr. Law noted that this item would be covered as part of the IEEE P802.3cn Task Force closing report.

#### ITU-T SG15: Coordination of Ethernet information and data modelling work liaison letter

Mr. Law noted that this item would be covered as part of the P802.3.2 (IEEE 802.3cf) Task Force closing report.

#### MEF: MEF 63 and operator L1 service attributes liaison letter

Mr. Law noted that this item would be covered as part of the Maintenance Task Force closing report.

OIF: 400ZR Interop Project liaison letter and attachment

Mr. Law noted that this item would be covered as part of the IEEE P802.3cn Task Force closing report.

TIA TR-42: Balanced single pair connector selection [liaison letter](#)

Mr. Law noted that this item would be covered as part of the IEEE P802.3cg Task Force closing report.

### **Future meetings – Steve Carlson**

Mr. Carlson reviewed the details of upcoming meetings including an update on the May 2019 meeting introduced by Mr. D’Ambrosia. Please see:

[http://www.ieee802.org/3/minutes/nov18/1118\\_meetings\\_close.pdf](http://www.ieee802.org/3/minutes/nov18/1118_meetings_close.pdf).

[http://www.ieee802.org/3/minutes/nov18/1118\\_EA\\_update\\_may\\_2019.pdf](http://www.ieee802.org/3/minutes/nov18/1118_EA_update_may_2019.pdf)

Ms. A. Changxin reviewed two possible locations for an interim meeting hosted by Huawei. Please see:

[http://www.ieee802.org/3/minutes/nov18/1118\\_huawei\\_poll.pdf](http://www.ieee802.org/3/minutes/nov18/1118_huawei_poll.pdf).

#### **Straw poll #1**

Which city would you prefer for a joint 802.1 and 802.3 interim meeting location in China?

Chengdu: 92,

Guangzhou: 8

15-Nov 2018, 1:56pm

At this point two further straw polls were taken.

#### **Straw poll #2**

Marriott Marquis Queen’s Park Bangkok

Would you like to return to this venue?

Yes: 101, No: 17

15-Nov 2018, 1:59pm

### **Straw poll #3**

Did you like the social?

Like: 60, Dislike: 6, Did not attend: 57

15-Nov 2018, 2:02pm

## **REPORTS**

### **IEEE 802.3 Maintenance – Adam Healey**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_maint\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_maint_close_report.pdf).

Mr. Healey reviewed a proposed liaison to MEF. Please see:

[http://ieee802.org/3/minutes/nov18/outgoing/IEEE\\_802d3\\_to\\_MEF\\_1118\\_draft.pdf](http://ieee802.org/3/minutes/nov18/outgoing/IEEE_802d3_to_MEF_1118_draft.pdf).

### **MOTION #2**

Approve IEEE\_802d3\_to\_MEF\_1118\_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 MEF.

M: A. Healey on behalf of the Task Force

Technical ( $\geq 75\%$ )

Passed by voice without opposition 15-Nov 2018, 2:15 pm

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

Mr. Healey in turn recognized the other IEEE Std 802.3-2018 revision editors for their contributions to the project.

### **IEEE 802.3 Rules – Adam Healey**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_rules\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_rules_close_report.pdf).

Mr. Healey summarized the outcome of the IEEE 802.3 Rules meeting and noted that no changes had been made to the proposals.

**MOTION #3**

Approve the proposed IEEE 802.3 rules changes 1-07/18, 2-07/18, and 3-07/18 without a 30 day WG letter ballot.

M: A. Healey

S: K. Lusted

≥75%

Y: 104, N: 0, A: 1

Passed 15-Nov 2018, 2:27 pm

**IEEE P802.3ca 25 Gb/s, 50 Gb/s and 100 Gb/s EPON Task Force – Curtis Knittle**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_ca\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_ca_close_report.pdf).

Mr. Knittle reviewed the changes to the IEEE P802.3ca PAR.

**MOTION #4**

Move that the IEEE 802.3 Working Group approve the modifications to the IEEE P802.3ca 25 Gb/s, 50 Gb/s and 100 Gb/s EPON PAR, as shown in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0172-01-00EC-ieee-p802-3ca-draft-par-modification-request.pdf>

M: C. Knittle

S: M. Laubach

Technical (≥75%)

Y: 92, N: 0, A: 2

Passed 15-Nov 2018, 2:31 pm

Mr. Knittle reviewed the changes to the IEEE P802.3ca CSD responses.

**MOTION #5**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3ca 25 Gb/s, 50 Gb/s and 100 Gb/s EPON CSD modifications as shown in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0173-00-00EC-ieee-p802-3ca-draft-modified-csd.pdf>

M: C. Knittle

S: M. Hajduczenia

Technical (≥75%)

Y: 95, N: 0, A: 2

Passed 15-Nov 2018, 2:33 pm

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

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cf\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cf_close_report.pdf).

Ms. Zhuang reviewed a proposed liaison to ITU-T SG15. Please see:  
[http://ieee802.org/3/minutes/nov18/outgoing/IEEE\\_802d3\\_to\\_SG15\\_YANG\\_1118\\_draft.pdf](http://ieee802.org/3/minutes/nov18/outgoing/IEEE_802d3_to_SG15_YANG_1118_draft.pdf).

**MOTION #6**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_SG15\_YANG\_1118\_draft.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to the ITU-T SG 15.

M: Y. Zhuang

S: D. Remein

Technical ( $\geq 75\%$ )

Y: 102, N: 0, A: 1

Passed 15-Nov 2018, 2:40 pm

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

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cg\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cg_close_report.pdf).

Mr. Zimmerman announced that the IEEE P802.3cg Task Force would be holding an off-cycle interim meeting on 19 to 20 February 2019 either in San Jose, CA or in south western USA.

Mr. Zimmerman reviewed a proposed liaison response to ISO/IEC SC25/WG3. Please see:  
[http://ieee802.org/3/minutes/nov18/outgoing/IEEE\\_802d3\\_to\\_ISOIEC\\_SC25\\_WG3\\_spe\\_1118\\_draft.pdf](http://ieee802.org/3/minutes/nov18/outgoing/IEEE_802d3_to_ISOIEC_SC25_WG3_spe_1118_draft.pdf).

**MOTION #7**

Move that the IEEE 802.3 Working Group approve: IEEE\_802d3\_to\_ISOIEC\_SC25\_WG3\_spe\_1118\_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.

M: P. Jones

S: G. Zimmerman

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 15-Nov 2018, 2:50 pm



Mr. Kim then presented pages 9 to 11 of  
[http://iee802.org/3/minutes/nov18/1118\\_cg\\_close\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_cg_close_report.pdf)

Mr. Thompson then presented pages 12 to 17 of  
[http://iee802.org/3/minutes/nov18/1118\\_cg\\_close\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_cg_close_report.pdf)

Mr. Jones then presented pages 18 to 21 of  
[http://iee802.org/3/minutes/nov18/1118\\_cg\\_close\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_cg_close_report.pdf)

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Break at approximately 3:20 pm. Restarted at approximately 3:38 pm.

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At this point Mr. Healey took over as chair of the meeting.

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

Please see [http://iee802.org/3/minutes/nov18/1118\\_ch\\_close\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_ch_close_report.pdf).

**IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force – Beth Kochuparambil**

Please see [http://iee802.org/3/minutes/nov18/1118\\_ck\\_close\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_ck_close_report.pdf).

Ms. Kochuparambil reviewed a proposed liaison response to COBO. Please see:  
[http://iee802.org/3/minutes/nov18/outgoing/IEEE\\_802d3\\_to\\_COBO\\_1118\\_draft.pdf](http://iee802.org/3/minutes/nov18/outgoing/IEEE_802d3_to_COBO_1118_draft.pdf).

**MOTION #8**

Move that the IEEE 802.3 Working Group approve:  
IEEE\_802d3\_to\_COBO\_1118\_draft  
with editorial license granted to the Chair (or his appointed agent) as a liaison  
communication from the IEEE 802.3 Working Group to COBO.

M: K. Lusted

S: R. Lingle

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 15-Nov 2018, 3:50 pm

At this point Mr. Law took over as chair of the meeting and asked if there was any opposition to adding the SCC18 Ad Hoc to the agenda. There was no opposition to this change.

**IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force – Robert Lingle**

Please see [http://iee802.org/3/minutes/nov18/1118\\_cm\\_close\\_report.pdf](http://iee802.org/3/minutes/nov18/1118_cm_close_report.pdf).

**IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over SMF and DWDM Task Force – John D’Ambrosia**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_cn\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_cn_close_report.pdf).

Mr. D’Ambrosia presented the proposed split of the IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over Single-Mode Fiber and DWDM Task Force in to two separate projects: P802.3cn and P802.3ct.

**MOTION #9**

Move that the IEEE 802.3 Working Group approve:

IEEE P802.3cn Project Documentation Modification

Objectives - [http://www.ieee802.org/3/cn/proj\\_doc/3cn\\_Objectives\\_181113.pdf](http://www.ieee802.org/3/cn/proj_doc/3cn_Objectives_181113.pdf)

PAR - <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0222-00-00EC-ieee-p802-3cn-draft-par-modification-request.pdf>

CSD - <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0223-00-00EC-ieee-p802-3cn-draft-csd-modifications.pdf>

IEEE P802.3ct Project Documentation

Objectives - [http://www.ieee802.org/3/cn/proj\\_doc/3ct\\_Objectives\\_181113.pdf](http://www.ieee802.org/3/cn/proj_doc/3ct_Objectives_181113.pdf)

PAR - <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0225-00-00EC-ieee-p802-3ct-draft-par.pdf>

CSD - <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0226-00-00EC-ieee-p802-3ct-draft-csd.pdf>

M: J. D’Ambrosia

S: P. Anslow

Technical ( $\geq 75\%$ )

Y: 90, N: 0, A: 2

Passed 15-Nov 2018, 4:11 pm

Mr. Law announced that should the P802.3ct Task Force be approved, he will appoint Mr. D’Ambrosia to be chair of the Task Force.

**IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force – Chad Jones**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_cq\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/nov18/1118_cq_close_report.pdf).

**IEEE P802.3cr Isolation (Maintenance #14) Task Force – Jon Lewis**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_cr\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/nov18/1118_cr_close_report.pdf).

**IEEE 802.3 Bidirectional 10Gb/s and 25Gb/s optical access PHYs Study Group –  
Frank Effenberger**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_bidi\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_bidi_close_report.pdf).

Mr. Effenberger presented the proposed IEEE P802.3cp 10 Gb/s, 25 Gb/s, and 50 Gb/s Bidirectional Access Optical PHYs Task Force PAR.

**MOTION #10**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cp PAR, in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0175-01-00EC-ieee-p802-3cp-draft-par.pdf>

M: F. Effenberger

S: D. Remein

Technical ( $\geq 75\%$ )

Y: 83, N: 0, A: 1

Passed 15-Nov 2018, 4:28 pm

Mr. Effenberger presented the proposed IEEE P802.3cp 10 Gb/s, 25 Gb/s, and 50 Gb/s Bidirectional Access Optical PHYs Task Force CSD responses.

**MOTION #11**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cp CSD responses, in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0176-03-00EC-ieee-p802-3cp-draft-csd.pdf>

M: F. Effenberger

S: M. Laubach

Technical ( $\geq 75\%$ )

Y: 85, N: 0, A: 1

Passed 15-Nov 2018, 4:35 pm

Mr. Effenberger presented the proposed IEEE P802.3cp 10 Gb/s, 25 Gb/s, and 50 Gb/s Bidirectional Access Optical PHYs Task Force objectives.

**MOTION #12**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cp Objectives, in [http://www.ieee802.org/3/NGBIDI/public/1811/181114\\_802d3\\_OBJ\\_BiDi\\_v3.pdf](http://www.ieee802.org/3/NGBIDI/public/1811/181114_802d3_OBJ_BiDi_v3.pdf)

M: F. Effenberger

S: C. DeSanti

Technical ( $\geq 75\%$ )

Passed by voice without opposition 15-Nov 2018, 4:39 pm

**MOTION #13**

Move that the IEEE 802.3 Working Group request the re-chartering of the Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs Study Group

M: F. Effenberger

S: D. Remein

>50%

Y: 82, N: 0, A: 1

Passed 15-Nov 2018, 4:41 pm

Mr. Law announced that, should the Task Force be approved, he will appoint Mr. Effenberger to be chair of the Task Force.

**IEEE 802.3 Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Study Group – Claudio DeSanti**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_spon\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_spon_close_report.pdf).

Mr. DeSanti presented the proposed IEEE P802.3cs Task Force objectives.

**MOTION #14**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cs Super-PON objectives, as per slide 6 of 1118\_spon\_close\_report.pdf

M: C. DeSanti

S: M. Laubach

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 15-Nov 2018, 4:47pm

Mr. DeSanti presented the proposed IEEE P802.3cs Task Force PAR.

**MOTION #15**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cs Super-PON PAR, in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0177-02-00EC-ieee-p802-3cs-draft-par.pdf>

M: C. DeSanti

S: M. Hajduczenia

Technical ( $\geq 75\%$ )

Y: 77, N: 0, A: 2

Passed 15-Nov 2018, 4:51pm

Mr. DeSanti presented the proposed IEEE P802.3cs Task Force CSD responses.

**MOTION #16**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cs Super-PON CSD “Managed Objects”, “Coexistence”, “Broad Market Potential”, “Compatibility”, “Distinct Identity”, “Technical Feasibility”, and “Economic Feasibility” responses, in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0178-01-00EC-ieee-p802-3cs-draft-csd.pdf>

M: C. DeSanti

S: F. Effenberger

Technical ( $\geq 75\%$ )

Y: 76, N: 0, A: 4

Passed 15-Nov 2018, 4:54 pm

**MOTION #17**

Move that the IEEE 802.3 Working Group request the first re-chartering of the IEEE 802.3 Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Study Group

M: C. DeSanti

S: J. D’Ambrosia

>50%

Y: 77, N: 0, A: 1

Passed 15-Nov 2018, 4:56 pm

Mr. Law announced that, should the Task Force be approved, he will appoint Mr. DeSanti to be chair of the Task Force.

**IEEE 802.3 New Ethernet Applications Industry Connection Ad Hoc – John D’Ambrosia**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_NEA\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_NEA_close_report.pdf).

**IEEE 802.3 SCC18 Ad Hoc – Chad Jones**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_SCC18\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_SCC18_close_report.pdf).

**MOTION #18**

Move that the IEEE 802.3 Working Group grant the SCC18 adhoc the authority to give guidance to the PT716 External Representative by December 5, 2018 for comment resolution against 64/2280/CD.

M: C. Jones

S: J. Lewis

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 15-Nov 2018, 5:06 pm

**CALL FOR INTEREST**

**IEEE 802.3 100Gb/s Lambda call for interest – Mark Nowell**

Please see [http://ieee802.org/3/minutes/nov18/1118\\_100G\\_lambda\\_close\\_report.pdf](http://ieee802.org/3/minutes/nov18/1118_100G_lambda_close_report.pdf).

Mr. Nowell presented the results of the consensus meeting.

**MOTION #19**

Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for 100 Gb/s per lane optical PHYs for 2 km and 10 km for 100 GbE and 400 GbE.

M: M. Nowell

S: D. Lewis

> 50%

Y: 85, N: 0, A: 1

Passed 15-Nov 2018, 5:10 pm

Mr. Law announced that, should the Study Group be approved, he will appoint Mr. Nowell to be chair of the Study Group.

## **OTHER BUSINESS**

Mr. Jones reviewed a proposed liaison response to ISO/IEC SC25 WG3. Please see: [http://iee802.org/3/minutes/nov18/outgoing/IEEE\\_802d3\\_to\\_ISOIEC\\_SC25\\_WG3\\_25G\\_1118\\_draft.pdf](http://iee802.org/3/minutes/nov18/outgoing/IEEE_802d3_to_ISOIEC_SC25_WG3_25G_1118_draft.pdf).

### **MOTION #20**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_ISOIEC\_SC25\_WG3\_25G\_1118\_draft with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to IEC SC25 WG3.

M: P. Jones

S: G. Zimmerman

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 15-Nov 2018, 5:16 pm

No further business was discussed.

## **ADJOURN**

### **MOTION #21**

Move to adjourn.

M: M. Dudek

S: J. D'Ambrosia

Procedural ( $> 50\%$ )

Passed by voice vote 15-Nov 2018, 5:18 pm

Adjourned.

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

[http://iee802.org/3/minutes/nov18/1118\\_attendance\\_bangkok.pdf](http://iee802.org/3/minutes/nov18/1118_attendance_bangkok.pdf)

The next meeting of the IEEE 802.3 Working Group will be on Thursday 17th January 2018, at the Hilton Long Beach Hotel, Long Beach, CA, USA.