

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Vancouver, Canada**  
**March 11 to 14, 2019**

<http://www.ieee802.org/3/minutes/mar19/index.html>

**MONDAY, 11 MARCH, 2019**

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 10:03 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 P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s EPON: Curtis Knittle
- 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, 200 Gb/s, and 400 Gb/s over greater than 10 km of SMF Task Force: 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) Task Force: Chad Jones
- IEEE P802.3cr Isolation (Maintenance #14) Task Force: Jon Lewis

- IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON): Claudio DeSanti
- IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force: John D'Ambrosia

IEEE 802.3 Study Group chairs

- IEEE 802.3 100 Gb/s per lane optical PHYs: Mark Nowell

### **Working Group Decorum**

Mr. Healey introduced the Working Group decorum as described in the opening report. Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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: M. Hajduczenia

S: J. Lewis

Procedural (> 50%)

Passed by voice vote without opposition 11-Mar 2019, 10:17am

### **Approval of November 2018 and January 2019 minutes**

Please see [http://www.ieee802.org/3/minutes/nov18/1118\\_minutes\\_draft.pdf](http://www.ieee802.org/3/minutes/nov18/1118_minutes_draft.pdf) and [http://www.ieee802.org/3/minutes/jan19/0119\\_minutes\\_draft.pdf](http://www.ieee802.org/3/minutes/jan19/0119_minutes_draft.pdf).

Mr. Healey asked if there were any additions or corrections to the November 2018 minutes which were posted on 22 November 2018. Mr. Healey also asked if there were any additions or corrections to the January 2019 minutes which were posted on 19 January 2019. There was no response.

## **MOTION #2**

Approve November 2018 plenary meeting minutes and the January 2019 interim meeting minutes.

M: M. Dudek

S: S. Trowbridge

Procedural (> 50%)

Passed by voice vote without opposition 11-Mar 2019, 10:18 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/mar19/0319\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_802_3_opening_plenary.pdf).

## **General Working Group business**

### Interim meetings since the July 2018 meeting

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_802_3_opening_plenary.pdf).

14th to 18th January 2019, Long Beach CA, USA

- IEEE 802.3 interim meeting series
- Hosted by Aruba

19th and 20th February 2019, Milpitas CA, USA

- IEEE P802.3cg 10 Mb/s Single Pair Ethernet Task Force
- Hosted by Analog Devices

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://iee802.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://iee802.org/3/minutes/mar19/0319\\_imat.pdf](http://iee802.org/3/minutes/mar19/0319_imat.pdf).

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

### Review of voting membership

Please see [http://www.iee802.org/3/minutes/mar19/0319\\_voters.pdf](http://www.iee802.org/3/minutes/mar19/0319_voters.pdf).

Mr. Law also noted that the voter's affiliations are shown in the IEEE 802.3 membership list. Please see [http://www.iee802.org/3/minutes/mar19/0319\\_802\\_3\\_membership\\_list.pdf](http://www.iee802.org/3/minutes/mar19/0319_802_3_membership_list.pdf).

### Review of voters in peril

Please see [http://www.iee802.org/3/minutes/mar19/0319\\_peril.pdf](http://www.iee802.org/3/minutes/mar19/0319_peril.pdf).

Mr. Law 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.iee802.org/3/minutes/mar19/0319\\_potential.pdf](http://www.iee802.org/3/minutes/mar19/0319_potential.pdf).

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

An, Hongming	He, Xiang	Ofelt, David
Asmussen, Jes	King, Jonathan	Pohl, Christopher
Deandrea, John	Koczwara, Wojciech	Salehi, Hamid
Dube, Kathryn	Levin, Alex	Shuai, Jialong
Dupuis, Marc	Mash, Chris	Takahara, Tomoo
Grau, Olaf	Nicholl, Shawn	Zivny, Pavel

Mr. Law 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://iee802.org/3/minutes/mar19/0319\\_treasury.pdf](http://iee802.org/3/minutes/mar19/0319_treasury.pdf).

## **IEEE 802 Executive Committee report**

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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/mar19/0319\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_802_3_opening_plenary.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_agenda\\_open.pdf](http://www.ieee802.org/3/minutes/mar19/0319_agenda_open.pdf).

### New standards PARs

- IEEE P802.11be: Enhancements for Extremely High Throughput (EHT) [PAR](#) and [CSD](#)

### Industry Connections Activity Initiation Document (ICAID):

- IEEE 802.1: Network Enhancements for the Next Decade renewal [ICAID](#) and [annual report](#)

Mr. Law 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/msg00874.html](http://www.ieee802.org/3/email_dialog/msg00874.html)

## **LIAISONS**

### **External Liaison reports**

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

Please see

[http://www.ieee802.org/3/minutes/mar19/0319\\_SC25\\_WG3\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/mar19/0319_SC25_WG3_report_to_802d3.pdf).

*TIA TR-42 report – Valerie Maguire*

Please see

[http://www.ieee802.org/3/minutes/mar19/0319\\_TIA\\_TR-42\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/mar19/0319_TIA_TR-42_report_to_802d3.pdf).

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

*ITU-T SG15: Coordination of Ethernet information and data modelling work [liaison letter](#), [attachment 1](#) and [attachment 2](#)*

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.

**IEEE 802.3 Rules – Adam Healey**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_rules\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_rules_open_report.pdf).

**IEEE 802.3 Maintenance – Adam Healey**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_maint\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_maint_open_report.pdf).

**TASK FORCE AND STUDY GROUP REPORTS**

**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/mar19/0319\\_ca\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_ca_open_report.pdf).

**IEEE P802.3.2 (IEEE 802.3cf) YANG data models Task Force – Marek Hajduczenia on behalf of Yan Zhuang**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_cf\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_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/mar19/0319\\_cg\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_cg_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_ch\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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/mar19/0319\\_ck\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_ck_open_report.pdf).

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

Please see [http://ieee802.org/3/minutes/mar19/0319\\_cm\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_cm_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_cn\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/mar19/0319_cn_open_report.pdf).

**IEEE P802.3cp Bidirectional 10Gb/s, 25 Gb/s, and 50Gb/s optical access PHYs Task Force – Frank Effenberger**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_cp\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_cp_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/mar19/0319\\_cq\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/mar19/0319_cq_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_cr\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/mar19/0319_cr_open_report.pdf).

**IEEE P802.3cs Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Task Force – Claudio DeSanti**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_cs\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_cs_open_report.pdf).

**IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force – John D’Ambrosia**

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_ct\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/mar19/0319_ct_open_report.pdf).

**IEEE 802.3 100 Gb/s per lane optical PHYs Study Group – Mark Nowell**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_100G\\_optx\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_100G_optx_open_report.pdf).

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

Please see [http://ieee802.org/3/minutes/mar19/0319\\_NEA\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_NEA_open_report.pdf).

**CALL FOR INTEREST**

**IEEE 802.3 Automotive Ethernet beyond 10 Gb/s Electrical PHYs call for interest – Steve Carlson**

Please see [http://ieee802.org/3/minutes/mar19/1118\\_autom\\_b10G\\_open\\_report.pdf](http://ieee802.org/3/minutes/mar19/1118_autom_b10G_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. D’Ambrosia

S: D. Remein

Procedural (> 50%)

Passed by voice vote 11-Mar 2019, 11:58 am

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Vancouver, Canada**  
**March 11 to 14, 2019**

<http://www.ieee802.org/3/minutes/mar19/index.html>

**THURSDAY, 14 MARCH, 2019**

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 1:00 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/mar19/0319\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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/mar19/0319\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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: J. D'Ambrosia

S: D. Remein

Procedural (> 50%)

Passed by voice vote without opposition 14-Mar 2019, 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/mar19/0319\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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/mar19/0319\\_voters.pdf](http://www.ieee802.org/3/minutes/mar19/0319_voters.pdf).

#### Review of voters in peril

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_peril.pdf](http://www.ieee802.org/3/minutes/mar19/0319_peril.pdf).

#### Request for membership

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_potential.pdf](http://www.ieee802.org/3/minutes/mar19/0319_potential.pdf).

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

Baumgartner, Steven	Souvignier, Tom	Wang, Xuehuan
Lo, William	Tracy, Nathan	Wu, Mau-Lin
Lyubomirsky, Ilya		

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

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/mar19/0319_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/mar19/0319\\_PARs\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_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)**

Ethernet Alliance: Formation of Single Pair Ethernet Committee [liaison letter](#)

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

ITU-T SG15: Coordination of Ethernet information and data modelling work [liaison letter, attachment 1 and attachment 2](#)

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

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

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

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

Mr. Carlson reviewed the details of upcoming meetings including an update on the May 2019 meeting. Ms. Kochuparambil introduced an update on the September 2019 meeting. Please see:

[http://www.ieee802.org/3/minutes/mar19/0319\\_meetings\\_close.pdf](http://www.ieee802.org/3/minutes/mar19/0319_meetings_close.pdf).

[http://www.ieee802.org/3/minutes/mar19/0319\\_EA\\_update\\_may\\_2019.pdf](http://www.ieee802.org/3/minutes/mar19/0319_EA_update_may_2019.pdf).

[http://www.ieee802.org/3/minutes/mar19/0319\\_cisco\\_update\\_sept\\_2019.pdf](http://www.ieee802.org/3/minutes/mar19/0319_cisco_update_sept_2019.pdf).

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

Mr. Trowbridge reviewed an offer for an interim meeting hosted by ITU-T, IEEE 802.3, and Nokia. Please see:

[http://www.ieee802.org/3/minutes/mar19/0319\\_ITU\\_802d3\\_Nokia\\_offer\\_to\\_host\\_jan\\_2020.pdf](http://www.ieee802.org/3/minutes/mar19/0319_ITU_802d3_Nokia_offer_to_host_jan_2020.pdf).

**MOTION #2**

Move that IEEE 802.3 accept the ITU/802.3/Nokia hosting offer for the January 2020 interim as detailed in: 0319\_ITU\_802d3\_Nokia\_offer\_to\_host\_jan\_2020.pdf.

M: S. Trowbridge

S: S. Carlson

Procedural (>50%)

Passed by voice vote without opposition 14-Mar 2019, 1:56 pm

Mr. Law resumed as chair of the meeting.

Two straw polls were taken.

**Straw poll #1**

Fairmont, Vancouver

Would you like to return to this venue?

Yes: 113, No: 6

14-Mar 2019, 2:03pm

**Straw poll #2**

Did you like the social?

Like: 87, Dislike: 1, Did not attend: 28

14-Mar 2019, 2:04pm

**Internal liaison**

IEEE 802.21 Network Enablers for Seamless HMD based VR Content Service Study Group

Please see

[http://ieee802.org/3/minutes/mar19/0319\\_IEEE\\_802d21\\_vr\\_network\\_requirements.pdf](http://ieee802.org/3/minutes/mar19/0319_IEEE_802d21_vr_network_requirements.pdf).

Mr. Seo reviewed a presentation titled “Why you should care about VR network requirements” and requested input to the IEEE 802.21 activity from 802.3 participants.

## REPORTS

### IEEE 802.3 Maintenance – Adam Healey

Please see [http://ieee802.org/3/minutes/mar19/0319\\_maint\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_maint_close_report.pdf).

#### MOTION #3

Submit IEEE Std 802.3bt-2018 and IEEE Std 802.3cd-2018 to ISO/IEC JTC 1/SC 6 for ratification under the PSDO agreement.

M: A. Healey on behalf of the Task Force

Technical ( $\geq 75\%$ )

Y: 104, N: 0, A: 3

Passed 14-Mar 2019, 2:33 pm

### IEEE 802.3 Rules – Adam Healey

Please see [http://ieee802.org/3/minutes/mar19/0319\\_rules\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_rules_close_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/mar19/0319\\_ca\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_ca_close_report.pdf).

### IEEE P802.3.2 (IEEE 802.3cf) YANG Data models Task Force – Marek Hajduczenia on behalf of Yan Zhuang

Please see [http://ieee802.org/3/minutes/mar19/0319\\_cf\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_cf_close_report.pdf).

Mr. Hajduczenia reviewed the unsatisfied negative comments against the P802.3.2 (IEEE 802.3cf) draft.

#### MOTION #4

Move that the IEEE 802.3 Working Group re-affirm the CSD responses in <http://www.ieee802.org/3/cf/ec-16-0142-00-ACSD-802-3cf.pdf> and request approval to submit the IEEE P802.3.2 (IEEE 802.3cf) draft to RevCom.

M: M. Hajduczenia

S: D. Remein

Technical ( $\geq 75\%$ )

Y: 105, N: 0, A: 1

Passed 14-Mar 2019, 2:47 pm

At this point Mr. Law asked if there was any opposition to swapping the order of the next two agenda items to make the P802.3ch report the next item. There was no objection.

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

Please see [http://iee802.org/3/minutes/mar19/0319\\_ch\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_ch_close_report.pdf).

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Break at approximately 2:55 pm. Restarted at approximately 3:14 pm.

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

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

Please see [http://iee802.org/3/minutes/mar19/0319\\_cg\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_cg_close_report.pdf).

Mr. Zimmerman reviewed the unsatisfied negative comments against the P802.3cg draft and there was discussion on them.

**MOTION #5**

Move that the IEEE 802.3 Working Group re-affirm the CSD responses in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0079-00-ACSD-802-3cg.pdf> and request approval to progress the IEEE P802.3cg draft to IEEE Standards Association ballot.

M: G. Zimmerman on behalf of the P802.3cg Task Force

Technical ( $\geq 75\%$ )

Y: 70, N: 6, A: 41

Passed 14-Mar 2019, 3:50 pm

Mr. Brandt made the following motion:

**MOTION #6**

Move to direct the IEEE 802.3 Working Group Chair to vote in the affirmative at the March 2019 IEEE 802 Executive Committee closing meeting on the matter of re-affirming the CSD responses for IEEE P802.3cg and progressing the IEEE P802.3cg draft to Standards Association ballot.

M: D. Brandt

S: S. Carlson

Technical ( $\geq 75\%$ )

Y: 77, N: 4, A: 26

Passed 14-Mar 2019, 3:55 pm

Mr. Law resumed as chair of the meeting.

Mr. Zimmerman reviewed a proposed liaison response to the Ethernet Alliance. Please see:

[http://iee802.org/3/minutes/mar19/outgoing/IEEE\\_802d3\\_to\\_EA\\_0319\\_draft.pdf](http://iee802.org/3/minutes/mar19/outgoing/IEEE_802d3_to_EA_0319_draft.pdf).

**MOTION #7**

Move that the IEEE 802.3 Working Group approve: IEEE\_802d3\_to\_EA\_0319\_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 Ethernet Alliance.

M: P. Jones

S: G. Zimmerman

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 14-Mar 2019, 4:04 pm

**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/mar19/0319\\_ck\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_ck_close_report.pdf).

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

Please see [http://iee802.org/3/minutes/mar19/0319\\_cm\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_cm_close_report.pdf).

Mr. Lingle reviewed the changes made to the P802.3cm draft compared to the preview version.

**MOTION #8**

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

M: R. Lingle

S: M. Dudek

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 14-Mar 2019, 4:12 pm

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

Please see [http://iee802.org/3/minutes/mar19/0319\\_cn\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_cn_close_report.pdf).

Mr. D’Ambrosia noted that there were no changes made to the P802.3cn draft compared to the preview version.

**MOTION #9**

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

M: J. D'Ambrosia

S: P. Anslow

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 14-Mar 2019, 4:16 pm

**IEEE P802.3cp Bidirectional 10Gb/s, 25Gb/s, and 50Gb/s optical access PHYs Task Force – Frank Effenberger**

Please see [http://ieee802.org/3/minutes/mar19/0319\\_cp\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_cp_close_report.pdf).

Mr. Effenberger reviewed a proposed liaison response to ITU-T SG15. Please see: [http://ieee802.org/3/minutes/mar19/outgoing/IEEE\\_802d3\\_to\\_SG15\\_0319\\_draft.pdf](http://ieee802.org/3/minutes/mar19/outgoing/IEEE_802d3_to_SG15_0319_draft.pdf).

**MOTION #10**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_SG15\_0319\_draft.pdf 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/Q2.

M: F. Effenberger on behalf of the P802.3cp Task Force

Technical ( $\geq 75\%$ )

Y: 98, N: 0, A: 0

Passed 14-Mar 2019, 4:27 pm

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

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_cq\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar19/0319_cq_close_report.pdf).

Mr. Jones reviewed the changes made to the P802.3cq draft compared to the preview version.

**MOTION #11**

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

M: C. Jones on behalf of the P802.3cq Task Force

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 14-Mar 2019, 4:34 pm

**IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) Task Force – Claudio DeSanti**

Please see [http://iee802.org/3/minutes/mar19/0319\\_cs\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_cs_close_report.pdf).

**IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force – John D'Ambrosia**

Please see [http://iee802.org/3/minutes/mar19/0319\\_ct\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_ct_close_report.pdf).

Mr. D'Ambrosia reviewed a proposed liaison to ITU-T SG15 and a second proposed liaison to OIF. Please see:

[http://iee802.org/3/minutes/mar19/outgoing/IEEE\\_802d3\\_to\\_ITU\\_3ct\\_0319\\_draft.pdf](http://iee802.org/3/minutes/mar19/outgoing/IEEE_802d3_to_ITU_3ct_0319_draft.pdf).

[http://iee802.org/3/minutes/mar19/outgoing/IEEE\\_802d3\\_to\\_OIF\\_3ct\\_0319\\_draft.pdf](http://iee802.org/3/minutes/mar19/outgoing/IEEE_802d3_to_OIF_3ct_0319_draft.pdf).

**MOTION #12**

Move that the IEEE 802.3 Working Group approve:

IEEE\_802d3\_to\_ITU\_3ct\_0319\_draft

IEEE\_802d3\_to\_OIF\_3ct\_0319\_draft

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

M: J. D'Ambrosia

S: S. Trowbridge

Technical ( $\geq 75\%$ )

Y: 93, N: 0, A: 1

Passed 14-Mar 2019, 4:45 pm

**IEEE 802.3 100 Gb/s per lane optical PHYs Study Group – David Lewis on behalf of Mark Nowell**

Please see [http://iee802.org/3/minutes/mar19/0319\\_100G\\_optx\\_close\\_report.pdf](http://iee802.org/3/minutes/mar19/0319_100G_optx_close_report.pdf).

Mr. Lewis presented the proposed IEEE P802.3cu Task Force objectives.

**MOTION #13**

Move that 802.3 approve the IEEE P802.3cu objectives, as per page 5 of 0319\_100g\_optx\_close\_report.pdf

M: D. Lewis

S: G. Nicholl

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 14-Mar 2019, 4:51pm

Mr. Lewis presented the proposed IEEE P802.3cu Task Force CSD responses.

**MOTION #14**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cu “100 Gb/s per lane optical PHYs” CSD “Managed Objects”, “Coexistence”, “Broad Market Potential”, “Compatibility”, “Distinct Identity”, “Technical Feasibility”, and “Economic Feasibility” responses, as per 0319\_100g\_optx\_close\_report.pdf

M: D. Lewis

S: G. Nicholl

Technical ( $\geq 75\%$ )

Y: 83, N: 0, A: 0

Passed 14-Mar 2019, 4:59 pm

Mr. Lewis presented the proposed IEEE P802.3cu Task Force PAR.

**MOTION #15**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cu “100 Gb/s per lane optical PHYs” PAR, in

[http://www.ieee802.org/3/100G\\_OPTX/P802\\_3cu\\_PAR\\_Detail\\_updated0319.pdf](http://www.ieee802.org/3/100G_OPTX/P802_3cu_PAR_Detail_updated0319.pdf)

M: D. Lewis

S: G. Nicholl

Technical ( $\geq 75\%$ )

Y: 84, N: 0, A: 0

Passed 14-Mar 2019, 5:02pm

**MOTION #16**

Move that the IEEE 802.3 Working Group request the re-chartering of the IEEE 802.3 100 Gb/s per lane optical PHYs Study Group

M: D. Lewis

S: G. Nicholl

>50%

Y: 82, N: 0, A: 0

Passed 14-Mar 2019, 5:04 pm

Mr. Law announced that, should the Task Force be approved, he will appoint Mr. Nowell 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/mar19/0319\\_NEA\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/0319_NEA_close_report.pdf).

**CALL FOR INTEREST****IEEE 802.3 Automotive Ethernet beyond 10 Gb/s Electrical PHYs call for interest – Steve Carlson**

Please see [http://ieee802.org/3/minutes/mar19/1118\\_autom\\_b10G\\_close\\_report.pdf](http://ieee802.org/3/minutes/mar19/1118_autom_b10G_close_report.pdf).

Mr. Carlson presented the results of the consensus meeting.

**MOTION #17**

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 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs.

M: S. Carlson

S: C. Mash

> 50%

Y: 87, N: 0, A: 2

Passed 14-Mar 2019, 5:13 pm

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

**OTHER BUSINESS**

No further business was discussed.

## ADJOURN

### MOTION #18

Move to adjourn.

M: J. D'Ambrosia

S: D. Remein

Procedural (> 50%)

Passed by voice vote without opposition 14-Mar 2019, 5:15 pm

Adjourned.

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

[http://ieee802.org/3/minutes/mar19/0319\\_attendance\\_vancouver.pdf](http://ieee802.org/3/minutes/mar19/0319_attendance_vancouver.pdf)

The next meeting of the IEEE 802.3 Working Group will be on Thursday 23rd May 2019, at the Sheraton Salt Lake City Hotel, Salt Lake City, UT, USA.