

**Unapproved Minutes**  
**IEEE 802.3 Ethernet Working Group plenary**  
**Vienna, Austria**  
**July 15 to 18, 2019**

<http://www.ieee802.org/3/minutes/jul19/index.html>

**MONDAY, 15 JULY, 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 10:00 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 P802.3ca 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. Healey introduced the Working Group decorum as described in the opening report. Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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: D. Remein

S: J. Lewis

Procedural (> 50%)

Passed by voice vote without opposition 15-Jul 2019, 10:12am

### **Approval of March 2019 and May 2019 minutes**

Please see [http://www.ieee802.org/3/minutes/mar19/0319\\_minutes\\_draft.pdf](http://www.ieee802.org/3/minutes/mar19/0319_minutes_draft.pdf) and [http://www.ieee802.org/3/minutes/may19/0519\\_minutes\\_draft.pdf](http://www.ieee802.org/3/minutes/may19/0519_minutes_draft.pdf).

Mr. Healey asked if there were any additions or corrections to the March 2019 minutes which were posted on 21 March 2019. Mr. Healey also asked if there were any additions or corrections to the May 2019 minutes which were posted on 25 May 2019. There was no response.

## **MOTION #2**

Approve March 2019 plenary meeting minutes and the May 2019 interim meeting minutes.

M: K. Lusted

S: P. Jones

Procedural (> 50%)

Passed by voice vote without opposition 15-Jul 2019, 10:13 am

## **Call for patents**

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

Mr. Healey showed the IEEE patent policy slides.

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/jul19/0719\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_802_3_opening_plenary.pdf).

## **General Working Group business**

### Interim meetings since the March 2019 meeting

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_802_3_opening_plenary.pdf).

16th to 17th April 2019, Warren MI, USA

- IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force
- Hosted by General Motors

20th to 24th May 2019, Salt Lake City UT, USA

- IEEE 802.3 interim meeting series
- Hosted by the Ethernet Alliance

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/jul19/0719\\_imat.pdf](http://ieee802.org/3/minutes/jul19/0719_imat.pdf).

### Review of voting membership

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_voters.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_802\\_3\\_membership\\_list.pdf](http://www.ieee802.org/3/minutes/jul19/0719_802_3_membership_list.pdf).

### Review of voters in peril

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_peril.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_potential.pdf](http://www.ieee802.org/3/minutes/jul19/0719_potential.pdf).

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

Aono, Michikazu	Ito, Hiroaki	Takahashi, Satoshi
Araki, Nobuyasu	Kadry, Haysam	Takahashi, Tadashi
Bhagwat, Gitesh	Lambrech, Frank	Takayama, Kazuya
Brillhart, Theodore	Le Cheminant, Greg	Takefman, Michael
Chattopadhyay, Biman	Schmitt, Matthew	Tu, Mike
Fukuoka, Takashi	Sedarat, Hossein	Wei, Dong
Goto, Hideki	Shiino, Masato	Zhang, Xingxin
Gubow, Martin	Shirani, Ramin	

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/jul19/0719\\_treasury.pdf](http://ieee802.org/3/minutes/jul19/0719_treasury.pdf).

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

Mr. Healey asked if there was any objection to moving this agenda item to later in the meeting when Mr. Law would be available. There was no objection.

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_agenda\\_open.pdf](http://www.ieee802.org/3/minutes/jul19/0719_agenda_open.pdf).

#### Amendment project PARs

- IEEE P802.1ABdh: Amendment: Support for Multiframe Protocol Data Units [PAR](#) and [CSD](#)
- IEEE P802.1Qdj: Amendment: Configuration Enhancements [PAR](#) and [CSD](#)

#### Revision PAR

- IEEE P802.15.9ma: Standard: Transport of Key Management Protocol (KMP) Datagram [PAR](#) and [CSD](#)

#### PAR extension requests

- IEEE P802.1Qcj: Amendment: Automatic Attachment to Provider Backbone Bridging (PBB) services [PAR](#)
- IEEE P802.11ay: Amendment: Enhanced Throughput for Operation in License-Exempt Bands Above 45 GHz [PAR](#)
- IEEE P802.11az: Amendment: Next Generation Positioning (NGP) [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/msg00936.html](http://www.ieee802.org/3/email_dialog/msg00936.html)

### **LIAISONS**

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

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

Consideration of this liaison letter was deferred until the September 2019 meeting due the alignment of the ITU-T JCA-IMT2020 and IEEE 802.3 meeting schedules (as confirmed by Mr. Trowbridge – the Mikado of ITU-T SG15).

*ITU-T SG15: Coordination on information and data modelling* [liaison letter](#) and [attachment](#)

Mr. Healey stated that this liaison letter was for information to IEEE 802.3 and no response was required.

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

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

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

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

### **External Liaison reports**

*TIA TR-42 report – Valerie Maguire*

Please see

[http://www.ieee802.org/3/minutes/jul19/0719\\_TIA\\_TR-42\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/jul19/0719_TIA_TR-42_report_to_802d3.pdf).

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_rules\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_rules_open_report.pdf).

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

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_802\\_3\\_opening\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_802_3_opening_plenary.pdf).

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_maint\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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://www.ieee802.org/3/minutes/jul19/0719\\_ca\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ca_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_cg\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cg_open_report.pdf).

Mr. Zimmerman announced an IEEE P802.3cg out-of-cycle interim for 14 and 15 August 2019 in Milwaukee, Wisconsin, USA.

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_ch\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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://www.ieee802.org/3/minutes/jul19/0719\\_ck\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ck_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_cm\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_cn\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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://www.ieee802.org/3/minutes/jul19/0719\\_cp\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_cq\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cq_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_cr\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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://www.ieee802.org/3/minutes/jul19/0719\\_cs\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_ct\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ct_open_report.pdf).

**IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength Task Force – Mark Nowell**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_cu\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cu_open_report.pdf).

**IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs Study Group – Steve Carlson**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_autom\\_b10G\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_autom_b10G_open_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_NEA\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_NEA_open_report.pdf).

**CALL FOR INTEREST**

**IEEE 802.3 Automotive optical Multi-Gig call for interest – Bob Grow on behalf of Carlos Pardo**

Please see  
[http://www.ieee802.org/3/minutes/jul19/0719\\_auto\\_opt\\_multiG\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_auto_opt_multiG_open_report.pdf).

**IEEE 802.3 Improving PTP Timestamping Accuracy on Ethernet Interfaces call for interest – Steve Gorshe**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_timestamp\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_timestamp_open_report.pdf).

**IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements call for interest – Peter Jones**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_multidrop\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_multidrop_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.

A straw poll was taken.

**Straw poll #1**

If you are attending any of the three meetings on Friday:

802 EC Closing Plenary,

802.11 Closing Plenary or

802.1 " IEC/IEEE 60802" meeting

will you participate (eat/drink) :

at the AM Break?        6

at lunch?                10

at the PM Break?        9

15-Jul 2019, 11:55 am

**ADJOURN**

No other items of business were presented.



**MOTION #3**

Move to adjourn.

M: J. Lewis

S: J. D'Ambrosia

Procedural (> 50%)

Passed by voice vote without opposition 15-Jul 2019, 11:57 am

**Unapproved Minutes**  
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**Vienna, Austria**  
**July 15 to 18, 2019**

<http://www.ieee802.org/3/minutes/jul19/index.html>

**THURSDAY, 18 JULY, 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 1:01 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/jul19/0719\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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**

Mr. D'Ambrosia proposed that the IEEE 802.3 New Ethernet Applications Industry Connection Ad Hoc agenda item should be removed as the NEA Ad Hoc did not meet during the week. There was no objection to this.

## **MOTION #1**

Motion to approve the agenda as modified.

M: J. D'Ambrosia

S: R. Grow

Procedural (> 50%)

Passed by voice vote without opposition 18-Jul 2019, 1:15 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/jul19/0719\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_voters.pdf](http://www.ieee802.org/3/minutes/jul19/0719_voters.pdf).

### Review of voters in peril

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_peril.pdf](http://www.ieee802.org/3/minutes/jul19/0719_peril.pdf).

### Request for membership

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_potential.pdf](http://www.ieee802.org/3/minutes/jul19/0719_potential.pdf).

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

Chang, Jacky

Rettig, Thomas

Wu, Dance

Koppermueller, Daniel

Shrikhande, Kapil

Zhu, Chunhui

Muller, Shimon

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

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_802\\_3\\_closing\\_plenary.pdf](http://www.ieee802.org/3/minutes/jul19/0719_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/jul19/0719\\_PARs\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_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)**

ITU-T JCA-IMT2020: Invitation to update the IMT2020 roadmap liaison letter

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

ITU-T SG15: Coordination on information and data modelling liaison letter and attachment

Mr. Law stated that this liaison letter was for information to IEEE 802.3 and no response was required.

OIF: Progress on OIF CEI-112G-VSR and CEI-112G-LR projects liaison letter and attachment

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

OIF: Progress on the OIF 400ZR 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. Please see: [http://www.ieee802.org/3/minutes/jul19/0719\\_meetings\\_close.pdf](http://www.ieee802.org/3/minutes/jul19/0719_meetings_close.pdf).

Two straw polls were taken.

**Straw poll #1**

Austria Center, Vienna

Would you like to return to this venue?

Yes: 126, No: 13

18-Jul 2019, 1:40pm

**Straw poll #2**

For a July Plenary, would you prefer:

a) Conference center independent from a Hotel

b) Combined Hotel/Conference Center (1 night min mtg hotel)?

a): 67, b): 58

18-Jul 2019, 1:42pm

**REPORTS**

Mr. Law asked if there was any objection to moving the agenda item for IEEE P802.3bt to be next. There was no objection.

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

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

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

**IEEE 802.3 Maintenance – Adam Healey**

Please see [http://ieee802.org/3/minutes/jul19/0719\\_maint\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_maint_close_report.pdf).

Mr. Healey reviewed Maintenance request 1337.

Mr. Remein made the following motion.

**MOTION #3**

Move that the IEEE 802.3 Working Group reject Maintenance request 1337

M: D. Remein

S: C. Jones

Technical ( $\geq 75\%$ )

There was discussion on motion #3. Mr. Zimmerman called the question, to which there was an objection.

**MOTION #4**

Call the question for Motion #3

M: G. Zimmerman

Procedural (>50%)

Passed by voice vote 18-Jul 2019, 2:14 pm

**MOTION #3**

Move that the IEEE 802.3 Working Group reject Maintenance request 1337

M: D. Remein

S: C. Jones

Technical ( $\geq 75\%$ )

Y: 70, N: 5, A: 46

Passed 18-Jul 2019, 2:15 pm

Mr. Healey reviewed the changes that had been made to the P802.3cv PAR.

**MOTION #5**

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cv Maintenance #15: Power over Ethernet PAR, in [http://www.ieee802.org/3/maint/public/P802\\_3cv\\_PAR\\_draft\\_0719.pdf](http://www.ieee802.org/3/maint/public/P802_3cv_PAR_draft_0719.pdf).

M: A. Healey

S: C. Jones

Technical ( $\geq 75\%$ )

Y: 109, N: 0, A: 4

Passed 18-Jul 2019, 2:18 pm

Mr. Law announced that should the IEEE P802.3cv Task Force be approved he would appoint Mr. C. Jones as the Task Force Chair.

**IEEE 802.3 Rules – Adam Healey**

Please see [http://ieee802.org/3/minutes/jul19/0719\\_rules\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_rules_close_report.pdf).

**MOTION #6**

Approve the proposed IEEE 802.3 rules change 1-03/19 without a 30 day WG letter ballot.

M: A. Healey

S: C. Knittle

≥75%

Passed by voice vote without opposition 18-Jul 2019, 2:24 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/jul19/0719\\_ca\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_ca_close_report.pdf).

**MOTION #7**

Move that the IEEE 802.3 Working Group grant approval for the P802.3ca, P802.3cp, and P802.3cs Task Forces to take motions during any joint meeting between these task forces only.

M: C. Knittle

S: C. DeSanti

Procedural (>50%)

Passed by voice vote 18-Jul 2019, 2:28 pm

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

Please see [http://ieee802.org/3/minutes/jul19/0719\\_cg\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_cg_close_report.pdf).

Mr. Zimmerman reviewed a proposed liaison to IEC TC31, SC 31G, PT 60079-47.

Please see:

[http://ieee802.org/3/minutes/jul19/outgoing/IEEE\\_802d3\\_to\\_IEC\\_SC31G\\_0719\\_draft.pdf](http://ieee802.org/3/minutes/jul19/outgoing/IEEE_802d3_to_IEC_SC31G_0719_draft.pdf).

**MOTION #8**

Move that the IEEE 802.3 Working Group approve:

IEEE\_802d3\_to\_SC31G\_0719\_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 TC31, SC 31G, PT 60079-47.

M: S. Graber

S: G. Zimmerman

Technical (≥75%)

Passed by voice vote without opposition 18-Jul 2019, 2:37 pm

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

Please see [http://ieee802.org/3/minutes/jul19/0719\\_ch\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_ch_close_report.pdf).

#### **MOTION #9**

Move that the IEEE 802.3 Working Group grant approval for the P802.3ch Task Force and the IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs Study Group to take motions during any joint meeting between these groups only.

M: S. Carlson

S: N. Wienckowski

Procedural (>50%)

Passed by voice vote without opposition 18-Jul 2019, 2:45 pm

### **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/jul19/0719\\_ck\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_ck_close_report.pdf).

Ms. Kochuparambil reviewed a proposed liaison response to OIF. Please see: [http://ieee802.org/3/minutes/jul19/outgoing/IEEE\\_802d3\\_to\\_OIF\\_CEI\\_0719\\_draft.pdf](http://ieee802.org/3/minutes/jul19/outgoing/IEEE_802d3_to_OIF_CEI_0719_draft.pdf).

#### **MOTION #10**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_OIF\_CEI\_0719\_draft with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to OIF.

M: K. Lusted

S: M. Dudek

Technical ( $\geq 75\%$ )

Passed by voice vote without opposition 18-Jul 2019, 2:50 pm

### **IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force – Ken Jackson on behalf of Robert Lingle**

Please see [http://ieee802.org/3/minutes/jul19/0719\\_cm\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_cm_close_report.pdf).

Mr. Jackson reviewed the unsatisfied negative comments against the P802.3cm draft.



**MOTION #11**

Move that the IEEE 802.3 Working Group re-affirm the CSD responses in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0078-00-ACSD-802-3cm.pdf> and request approval to progress the IEEE P802.3cm draft to IEEE Standards Association ballot.

M: K. Jackson

S: J. Ingham

Technical ( $\geq 75\%$ )

Y: 88, N: 1, A: 10

Passed 18-Jul 2019, 2:57 pm

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

Please see [http://ieee802.org/3/minutes/jul19/0719\\_cn\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_cn_close_report.pdf).

Mr. D'Ambrosia stated that there were no unsatisfied negative comments against the P802.3cn draft.

**MOTION #12**

Move that the IEEE 802.3 Working Group re-affirm the CSD responses in <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0248-00-ACSD-p802-3cn.pdf> and request approval to progress the IEEE P802.3cn draft to IEEE Standards Association ballot.

M: J. D'Ambrosia

S: P. Anslow

Technical ( $\geq 75\%$ )

Y: 106, N: 0, A: 2

Passed 18-Jul 2019, 3:02 pm

**MOTION #13**

Move that the IEEE 802.3 Working Group grant approval for the P802.3cn and P802.3ct Task Forces to take motions during any joint meeting between these task forces only.

M: J. D'Ambrosia

S: P. Anslow

Procedural ( $> 50\%$ )

Passed by voice vote without opposition 18-Jul 2019, 3:03 pm

Mr. D'Ambrosia announced an IEEE P802.3cn contingent interim teleconference on 20 August 2019.

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Break at approximately 3:05 pm. Restarted at approximately 3:21 pm.

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**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/jul19/0719\\_cp\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_cp_close_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/jul19/0719\\_cq\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cq_close_report.pdf).

Mr. Jones reviewed the editorial changes made to the P802.3cq draft.

**MOTION #14**

Move that the IEEE 802.3 Working Group request approval to progress the IEEE P802.3cq draft to IEEE Standards Association ballot.

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

Technical ( $\geq 75\%$ )

Y: 86, N: 0, A: 0

Passed 18-Jul 2019, 3:29 pm

**MOTION #15**

Move that the IEEE 802.3 Working Group grant approval for the P802.3cq and P802.3cv Task Forces to take motions during any joint meeting between these task forces only.

M: C. Jones

S: D. Abramson

Procedural ( $> 50\%$ )

Passed by voice vote without opposition 18-Jul 2019, 3:30 pm

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

Please see [http://ieee802.org/3/minutes/jul19/0719\\_cs\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_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://ieee802.org/3/minutes/jul19/0719\\_ct\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_ct_close_report.pdf).

Mr. D'Ambrosia reviewed a proposed liaison to ITU-T SG15 and OIF. Please see:  
[http://ieee802.org/3/minutes/jul19/outgoing/IEEE\\_802d3\\_to\\_ITU\\_OIF\\_3ct\\_0719\\_draft.pdf](http://ieee802.org/3/minutes/jul19/outgoing/IEEE_802d3_to_ITU_OIF_3ct_0719_draft.pdf).

#### **MOTION #16**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_ITU\_OIF\_3ct\_0719\_draft with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ITU-T SG15 and OIF.

M: J. D'Ambrosia

S: P. Anslow

Technical ( $\geq 75\%$ )

Y: 103, N: 0, A: 0

Passed 18-Jul 2019, 3:54 pm

#### **IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength Task Force – Mark Nowell**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_cu\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cu_close_report.pdf).

#### **IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs Study Group – Steve Carlson**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_autom\\_b10G\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_autom_b10G_close_report.pdf).

#### **MOTION #17**

Move that the IEEE 802.3 Working Group request the re-chartering of the IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs Study Group.

M: S. Carlson on behalf of the Study Group

> 50%

Y: 109, N: 0, A: 1

Passed 18-Jul 2019, 4:02 pm

#### **CALL FOR INTEREST**

#### **IEEE 802.3 Automotive optical Multi-Gig call for interest – Carlos Pardo**

Please see

[http://www.ieee802.org/3/minutes/jul19/0719\\_auto\\_opt\\_multiG\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_auto_opt_multiG_close_report.pdf).

Mr. Pardo presented the results of the consensus meeting.

**MOTION #18**

Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop the Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Multi Gigabit Automotive Optical PHY.

M: C. Pardo

S: H. Goto

> 50%

Y: 112, N: 0, A: 3

Passed 18-Jul 2019, 4:07 pm

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

**IEEE 802.3 Improving PTP Timestamping Accuracy on Ethernet Interfaces call for interest – Steve Gorshe**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_timestamp\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_timestamp_close_report.pdf).

Mr. Gorshe presented the results of the consensus meeting.

**MOTION #19**

Move that the IEEE 802.3 Working Group request the formation of the “Improving PTP Timestamping Accuracy on Ethernet Interfaces” Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) to address high accuracy time transport for IEEE 802.3 Ethernet.

M: S. Gorshe

S: J. Lewis

> 50%

Y: 106, N: 0, A: 4

Passed 18-Jul 2019, 4:11 pm

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

**IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements call for interest – Peter Jones**

Please see [http://www.ieee802.org/3/minutes/jul19/0719\\_timestamp\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_timestamp_close_report.pdf).

Mr. Jones presented the results of the consensus meeting. Mr. Jones made the following motion and there was some discussion on the scope of the proposed study group. The question was called by Mr. C. Jones and there was no opposition.

**MOTION #20**

Move that the IEEE 802.3 WG form a study group to develop a PAR and CSD for “10SPE Multidrop Enhancements”.

M: P. Jones

S: G. Zimmerman

> 50%

Y: 74, N: 3, A: 24

Passed 18-Jul 2019, 4:41 pm

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

**OTHER BUSINESS**

Mr. Law announced that should Mr. Anslow step down as IEEE 802.3 recording secretary (as expected after the September meeting) he would appoint Jon Lewis as his replacement.

**ADJOURN****MOTION #21**

Move to adjourn.

M: J. D’Ambrosia

S: J. Lewis

Procedural (> 50%)

Passed by voice vote without opposition 18-Jul 2019, 4:49 pm

Adjourned.

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

[http://ieee802.org/3/minutes/jul19/0719\\_attendance\\_vienna.pdf](http://ieee802.org/3/minutes/jul19/0719_attendance_vienna.pdf)

The next meeting of the IEEE 802.3 Working Group will be on Thursday 12th September 2019, at the Westin Indianapolis, Indianapolis, IN, USA.