

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group**  
**Update Teleconference**  
**March 16, 2020**

<http://www.ieee802.org/3/minutes/mar20/index.html>

**MONDAY, 16 MARCH 2020**

Minutes were taken by 802.3 Recording Secretary Jon Lewis.

**ADMINISTRATIVE MATTERS**

**Call to order**

Mr. David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 14:00 UTC. Mr. Law wished all participants well given the COVID-19 situation in the world and asked all participants to take special care during this time.

Welcome, introductions, and general announcements

Mr. Law noted that it would be too time consuming to have each individual introduce themselves, that introductions would not be done at this teleconference. Mr. Law 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: Jon Lewis

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 P802.3ch 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 P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs: Frank Effenberger
- IEEE P802.3cr Isolation (Maintenance #14): Jon Lewis
- IEEE P802.3cs Ethernet access PMDs for central office consolidation (Super-PON): Claudio DeSanti
- 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 P802.3cv Power over Ethernet (Maintenance #15): Chad Jones
- IEEE P802.3cw 400 Gb/s over DWDM systems: John D'Ambrosia

- IEEE P802.3cx Improved PTP Timestamping Accuracy Task Force: Steve Gorshe

#### IEEE 802.3 Task Force vice-chairs

- IEEE P802.3ca 25 Gb/s and 50 Gb/s EPON: Glen Kramer
- IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted

#### IEEE 802.3 Study Group chairs

- IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson
- IEEE 802.3 Multi Gigabit Automotive Optical PHYs Study Group: Bob Grow
- IEEE 802.3 10SPE Multidrop Enhancements Study Group: Chad Jones
- IEEE 802.3 100 Gb/s per Wavelength Short Reach PHYs Study Group: Robert Lingle Jr.

#### IEEE 802.3 Ad Hoc chair

- IEEE 802.3 New Ethernet Applications Industry Connection Ad Hoc: John D'Ambrosia

### **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the opening report. Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf#page=3](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf#page=3).

Mr. Law noted that there should be no recording without permission and that recording was disabled for this meeting in the teleconference tool.

Mr. Law 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.

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

Mr. Law noted that a soft copy of the draft agenda had been posted to the minutes section for this meeting. Mr. Law gave the general minutes webpage for IEEE 802.3:

<http://www.ieee802.org/3/minutes/>

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

#### **MOTION #1**

Approve the agenda.

M: J. Lewis

S: S. Carlson

Procedural (> 50%)

Motion Passed by unanimous consent 16-Mar 2020, 14:12 UTC

### **Call for patents**

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf#page=5](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf#page=5).

Mr. Law showed the IEEE patent policy slides.

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

Mr. Law asked that Mr. Lewis record that:

- No letters of assurance were submitted
- The patent policy, per the latest PatCom slide set, was shown
- Anyone wishing to submit a letter of assurance can do so at any time by contacting Mr. Law or the PatCom administrator

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

Mr. Law reviewed the IEEE SA copyright slides.

[http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf#page=10](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf#page=10)

Mr. Law advised the standards development group participants that:

- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;

Mr. Law reviewed the IEEE SA participation slides.

[http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf#page=13](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf#page=13)

Please also see [http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf).

## **General Working Group business**

### Interim meetings since the November 2019 meeting

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf).

20<sup>th</sup> through 24<sup>th</sup> January 2020, Geneva, CH

- IEEE 802.3 interim meeting series

Mr. Law expressed his thanks to the ITU for co-hosting the meeting.

Mr. Law explained the membership requirements (gaining and retaining)

Mr. Law noted that this teleconference meeting was not a plenary and that the plenary was canceled. Based on this there was no “Voter’s in Peril” for this meeting.

- 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.

#### Review of voting membership

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_voters.pdf](http://www.ieee802.org/3/minutes/mar20/0320_voters.pdf).

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

[http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_membership\\_list.pdf](http://www.ieee802.org/3/minutes/mar20/0320_802_3_membership_list.pdf).

#### Request for membership

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_potential.pdf](http://www.ieee802.org/3/minutes/mar20/0320_potential.pdf).

Mr. Law noted that based on

[http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf#page=19](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf#page=19) the participants that meet the requirements as specified would become an IEEE 802.3 voter as of Friday 20th March 2020.

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

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_treasury.pdf](http://www.ieee802.org/3/minutes/mar20/0320_treasury.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_802\\_3\\_update.pdf#page=25](http://www.ieee802.org/3/minutes/mar20/0320_802_3_update.pdf#page=25).

George Zimmerman gave a brief summary of the 802 Treasury report.

#### LIAISONS

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

[ITU-T SG15: ANT and HNT work plans](#)

[ITU-T SG15: ANT standards overview and work plan](#)

[ITU-T SG15: HNT standards overview and work plan](#)

[ITU-T SG15: OTNT standardization work plan: Attachment](#)

- Defer all until July 2020 IEEE 802.3 plenary meeting series

[ITU-T SG15: Interoperable Ethernet OAM Management Systems](#)

- No response need, sent to IEEE 802.1, copied to IEEE 802.3

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

- IEEE P802.3cw 400 Gb/s over DWDM systems Task Force

[TIA TR-42: BASE-T1 isolation](#)

- IEEE 802.3 10SPE Multidrop Enhancements Study Group

**External Liaison reports**

*ISO/IEC SC25/WG3 Liaison Report – James Withey*

Please see

[http://www.ieee802.org/3/minutes/mar20/incoming/SC25WG3\\_Liaison\\_to\\_IEEE802d3\\_March2020\\_Withey\\_V2.pdf](http://www.ieee802.org/3/minutes/mar20/incoming/SC25WG3_Liaison_to_IEEE802d3_March2020_Withey_V2.pdf).

*TIA TR-42 report – Valerie Maguire*

Please see

[http://www.ieee802.org/3/minutes/mar20/incoming/0320\\_TIA\\_TR42\\_report\\_to\\_802d3.pdf](http://www.ieee802.org/3/minutes/mar20/incoming/0320_TIA_TR42_report_to_802d3.pdf).

**IEEE 802.3 Maintenance – Adam Healey**

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_maint\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_maint_update_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/mar20/0320\\_ca\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_ca_update_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_ch\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_ch_update_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/mar20/0320\\_3ck\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_3ck_update_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/mar20/0320\\_cp\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_cp_update_report.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_cr\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_cr_update_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/mar20/0320\\_cs\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_cs_update_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/mar20/0320\\_3ct\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_3ct_update_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/mar20/0320\\_cu\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_cu_update_report.pdf).

**IEEE P802.3cv Power over Ethernet (Maintenance #15) Task Force – Chad Jones**

Please see

[http://www.ieee802.org/3/minutes/mar20/802d3cv\\_update\\_task\\_force\\_report\\_0320.pdf](http://www.ieee802.org/3/minutes/mar20/802d3cv_update_task_force_report_0320.pdf).

**IEEE P802.3cw 400 Gb/s over DWDM systems: John D’Ambrosia**

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_3cw\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_3cw_update_report.pdf).

**IEEE P802.3cx Improved PTP Timestamping Accuracy Task Force: Steve Gorshe**

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_3cx\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_3cx_update_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/mar20/0320\\_B10GAUTO\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_B10GAUTO_open_report.pdf).

Mr. Law asked if there was any objection to modifying the agenda to move the IEEE 802.3 Multi Gigabit Automotive Optical PHYs Study Group report to later in the agenda, none responded.

**IEEE 802.3 10SPE Multidrop Enhancements Study Group: Chad Jones**

Please see

[http://www.ieee802.org/3/minutes/mar20/802d3\\_SPMD\\_update\\_study\\_group\\_report\\_0320.pdf](http://www.ieee802.org/3/minutes/mar20/802d3_SPMD_update_study_group_report_0320.pdf).

**IEEE 802.3 100 Gb/s per Wavelength Short Reach PHYs Study Group update report: Robert Lingle Jr.**

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_100GSR\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_100GSR_update_report.pdf).

**IEEE 802.3 Multi Gigabit Automotive Optical PHYs Study Group: Bob Grow**

Please see [http://www.ieee802.org/3/minutes/mar20/Update\\_d3\\_OMEGAA\\_0320.pdf](http://www.ieee802.org/3/minutes/mar20/Update_d3_OMEGAA_0320.pdf).

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

Please see [http://www.ieee802.org/3/minutes/mar20/0320\\_3nea\\_update\\_report.pdf](http://www.ieee802.org/3/minutes/mar20/0320_3nea_update_report.pdf).

Mr. Law noted that a calendar has been created that shows upcoming meetings.

<http://www.ieee802.org/3/calendar.html>

**ADJOURN**

No other items of business were presented.

**MOTION #2**

Move to adjourn.

M: J. D'Ambrosia

S: A. Ran

Procedural (> 50%)

Motion Passed by unanimous consent 16-Mar 2020, 15:54 UTC

Adjourned.

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

[http://www.ieee802.org/3/minutes/mar20/0320\\_attendance.pdf](http://www.ieee802.org/3/minutes/mar20/0320_attendance.pdf)

The next meeting of the IEEE 802.3 Working Group will be announced on the IEEE 802.3 reflector.