

**Unapproved Minutes**  
**IEEE 802.3 Ethernet Working Group**  
**Virtual plenary Meeting**  
**March 8, 2021**

<https://www.ieee802.org/3/minutes/mar21/index.html>

**MONDAY, 8 MARCH 2021**

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 noted that this was an inconvenient time for some and thanked the group for attending. Mr. Law noted that the closing plenary next week is after Daylight Savings Time takes effect in some geographies. Mr. Law also wished everyone is staying safe and is well.

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 P802.3ck 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 P802.3cs 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 P802.3cv Power over Ethernet (Maintenance #15): Chad Jones

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

IEEE P802.3cy Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson

IEEE P802.3cz Multi Gigabit Automotive Optical PHYs Study Group: Bob Grow

IEEE P802.3da 10SPE Multidrop Enhancements Study Group: Chad Jones

IEEE P802.3db 100 Gb/s per Wavelength Short Reach PHYs Study Group: Robert Lingle Jr.

IEEE P802.3 (IEEE 802.3dc) Ethernet revision (Maintenance #16): Adam Healey

IEEE 802.3 Task Force vice-chairs

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted

IEEE P802.3ct 100 Gb/s over DWDM systems: Tom Issenhuth

IEEE P802.3cw 400 Gb/s over DWDM systems: Tom Issenhuth

IEEE 802.3 Study Group chair

IEEE 802.3 Beyond 400 Gb/s Ethernet Study Group: John D'Ambrosia

Mr. Law introduced the procedure for including your affiliation in your screen name.

Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=3](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=3).

### **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the opening report.

Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=4](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=4).

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

#### **MOTION #1**

Approve the agenda.

M: C. Jones

S: S. Trowbridge

Procedural (> 50%)

Motion Passed by unanimous consent 8-March 2021, 14:12 UTC

## **MOTION #2**

Approve the minutes from the November 2020 and January 2021 minutes.

M: V. Maguire

S: R. Grow

Procedural (> 50%)

Motion Passed by unanimous consent 8-March 2021, 14:13 UTC

### **Call for patents**

Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=6](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=6).

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.

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=11](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=11)

Mr. Law advised 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;
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA. For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

Mr. Law reviewed the IEEE SA participation slides.

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=14](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=14)

Mr. Law advised participants that:

- Participants in the IEEE-SA "individual process" under which the project operates shall act independently of others, including employers, and shall act based on their qualifications and experience. By participating in standards activities using the "individual process", you are deemed to accept these requirements; if you are

unable to satisfy these requirements then you shall immediately cease any participation.

Please also see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf).

### **General Working Group business**

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

75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)

Request to become member during IEEE 802.3 potential voter agenda item

Participate in 2 of last 3 WG ballots 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 [https://www.ieee802.org/3/minutes/mar21/0321\\_voters.pdf](https://www.ieee802.org/3/minutes/mar21/0321_voters.pdf).

#### Review of voters in peril

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_peril.pdf](https://www.ieee802.org/3/minutes/mar21/0321_peril.pdf)

#### Review of Potential voters

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_potential.pdf](https://www.ieee802.org/3/minutes/mar21/0321_potential.pdf)

The following participants requested voting rights during the opening plenary:

Aronson, Joseph	Lee, Sylvanus	New, Anthony
Ben-Artzi, Liav	Matheus, Kirsten	Pandey, Sujana
Champion, Bruce	Mueller, Harald	Shukla, Priyanka
Feyh, German	Mueller, Thomas	Withey, James
Glanzner, Martin	Nakagawa, Hideki	
Kadry, Haysam	Nariya, Makoto	
Kota, Kishore	Neulinger, Christian	

Valerie Maguire shared the Working Group treasury report. Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=22](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=22)

Mr. Law showed the 802 EC report

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=25](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=25)

Mr. Law showed the 802 EC meeting schedule. Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=26](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=26)

Mr. Law reviewed the IEEE 802 PARs and ICAIDs under consideration this week. Please see:

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=27](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=27)

Please see:

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_opening\\_plenary.pdf#page=29](https://www.ieee802.org/3/minutes/mar21/0321_802_3_opening_plenary.pdf#page=29)

## LIAISONS

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

TIA: TIA-568.5 Balanced Single Twisted-Pair Standard Draft 1.6 [cover letter](#) and [draft](#)

OIF Status of 400ZR IA maintenance project [liaison letter](#)

### **External Liaison letters (old)**

OIF: Progress of CEI-112G-VSR, CEI-112G-MR and CEI-112G-LR projects [liaison letter](#) and [attachment](#)

ITU-T SG5: Power over Ethernet (PoE) and Power over Data Lines (PoDL) [liaison letter](#)

ITU-T SG15: New Access Network Transport (ANT) Standards Overview and Work Plan [liaison letter](#)

ITU-T SG15: New Home Network Transport (HNT) Standards Overview and Work Plan [liaison letter](#)

ITU-T SG15: Latest version of the Access Network Transport (ANT) Standards Work Plan and Home Network Transport (HNT) Standards Work Plan [liaison letter](#)

ITU-T SG15: OTNT Standardization Work Plan Issue 28 [liaison letter](#) and [attachment](#)

### **External Liaison reports**

James Withey presented the ISO/IEC report to IEEE 802.3 Please see

[https://www.ieee802.org/3/minutes/mar21/SC25WG3\\_Liaison\\_to\\_IEEE802d3\\_Mar2021\\_Withey.pdf](https://www.ieee802.org/3/minutes/mar21/SC25WG3_Liaison_to_IEEE802d3_Mar2021_Withey.pdf)

Valerie Maguire presented the TIA TR42 report to IEEE 802.3 Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_TIA\\_TR42\\_report\\_to\\_802d3.pdf](https://www.ieee802.org/3/minutes/mar21/0321_TIA_TR42_report_to_802d3.pdf)

Opening reports:

IEEE 802.3 Maintenance Report – Adam Healey

[https://www.ieee802.org/3/minutes/mar21/0321\\_maint\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_maint_open_report.pdf)

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

[https://www.ieee802.org/3/minutes/mar21/0321\\_3ck\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_3ck_open_report.pdf)

IEEE P802.3ct/cw 100 Gb/s and 400 Gb/s over DWDM systems Task Forces opening report – John D’Ambrosia

[https://www.ieee802.org/3/minutes/mar21/0321\\_3ctcw\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_3ctcw_open_report.pdf)

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force opening report – Steve Carlson

[https://www.ieee802.org/3/minutes/mar21/0321\\_cy\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_cy_report.pdf)

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force - Bob Grow

[https://www.ieee802.org/3/minutes/mar21/0321\\_P802.3cz\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_P802.3cz_report.pdf)

IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force opening report – Chad Jones

[https://www.ieee802.org/3/minutes/mar21/802d3da\\_update\\_task\\_force\\_report\\_0321.pdf](https://www.ieee802.org/3/minutes/mar21/802d3da_update_task_force_report_0321.pdf)

Mr. Carlson noted that sub group schedules are on the [802.3 meeting calendar](#).

Mr. Law noted that the agenda had been exhausted and asked if there was other business for the Working Group, none responded.

**MOTION #3**

Adjourn the meeting

M: C. Jones

S: J. D’Ambrosia

Procedural (> 50%)

Motion Passed by unanimous consent 8-March 2021, 16:07 UTC

Mr. Law then adjourned the meeting.

Adjourned.

**Unapproved Minutes**  
**IEEE 802.3 Ethernet Working Group**  
**Virtual plenary Meeting (mid-session)**  
**March 11, 2021**

<https://www.ieee802.org/3/minutes/mar21/index.html>

**THURSDAY, 11 MARCH 2021**

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 noted that this was an inconvenient time for some and thanked the group for attending. Mr. Law also wished everyone is staying safe and is well.

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 P802.3ck 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 P802.3cs 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 P802.3cv Power over Ethernet (Maintenance #15): Chad Jones

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

IEEE P802.3cy Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson

IEEE P802.3cz Multi Gigabit Automotive Optical PHYs Study Group: Bob Grow

IEEE P802.3da 10SPE Multidrop Enhancements Study Group: Chad Jones

IEEE P802.3db 100 Gb/s per Wavelength Short Reach PHYs Study Group: Robert Lingle Jr.

IEEE P802.3 (IEEE 802.3dc) Ethernet revision (Maintenance #16): Adam Healey

IEEE 802.3 Task Force vice-chairs

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted

IEEE P802.3ct 100 Gb/s over DWDM systems: Tom Issenhuth  
IEEE P802.3cw 400 Gb/s over DWDM systems: Tom Issenhuth

IEEE 802.3 Study Group chair

IEEE 802.3 Beyond 400 Gb/s Ethernet Study Group: John D'Ambrosia

### **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the mid-session report. Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_mid\\_session\\_plenary.pdf](https://www.ieee802.org/3/minutes/mar21/0321_802_3_mid_session_plenary.pdf).

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

#### **MOTION #1**

Approve the agenda

M: C. Jones

S: J. D'Ambrosia

Procedural (> 50%)

Motion Passed by unanimous consent 11-March 2021, 14:08 UTC

### **Call for patents**

Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_mid\\_session\\_plenary.pdf#page=6](https://www.ieee802.org/3/minutes/mar21/0321_802_3_mid_session_plenary.pdf#page=6).

Mr. Law asked if anyone had not seen the patent policy this week, none responded. 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 read aloud slide 9.

Mr. Law reviewed the IEEE SA copyright slides.

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_mid\\_session\\_plenary.pdf#page=11](https://www.ieee802.org/3/minutes/mar21/0321_802_3_mid_session_plenary.pdf#page=11)

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;
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA. For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

Mr. Law reviewed the IEEE SA participation slides.

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_mid\\_session\\_plenary.pdf#page=14](https://www.ieee802.org/3/minutes/mar21/0321_802_3_mid_session_plenary.pdf#page=14)

Mr. Law advised participants that:

- Participants in the IEEE-SA "individual process" under which the project operates shall act independently of others, including employers, and shall act based on their qualifications and experience. By participating in standards activities using the "individual process", you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation.

### **General Working Group business**

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

75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)

Request to become member during IEEE 802.3 potential voter agenda item

Participate in 2 of last 3 WG ballots to retain membership

Maintain valid contact information

Consistent declaration of affiliation

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

Please see

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_mid\\_session\\_plenary.pdf#page=18](https://www.ieee802.org/3/minutes/mar21/0321_802_3_mid_session_plenary.pdf#page=18).

Mr. Law shared how voting was going to occur along with the voting tool that is to be used during this meeting. Mr. Law requested the Working Group members take a moment to login to the tool and make sure that everyone had access to the new voting tool.

## **MOTION #2**

Move to approve:

- [IEEE\\_802d3\\_to\\_SG15\\_HNT\\_0321\\_R01.docx](#)
- [IEEE\\_802d3\\_to\\_SG15\\_ANT\\_0321\\_R03.docx](#)
- [IEEE\\_802d3\\_to\\_SG15\\_OTNT\\_0321\\_draft.docx](#)

with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ITU-T SG15.

M: C. Jones

S:

Technical (>= 75%)

Approve: 132 ; Disapprove: 0; Abstain: 4

Motion Passed 11-March 2021, 14:48 UTC

Withdrawal of IEEE 802.1D-2004 Media Access Control (MAC) Bridges – Glenn Parsons

[https://www.ieee802.org/1/files/public/docs2021/maint-parsons-802.1D\\_withdrawal\\_status-0321-v1.pdf](https://www.ieee802.org/1/files/public/docs2021/maint-parsons-802.1D_withdrawal_status-0321-v1.pdf)

## **ACTIONS**

IEEE 802.3 Power Delivery Coordinating Committee (PDCC) Ad Hoc – Chad Jones

[https://www.ieee802.org/3/minutes/mar21/PDCC\\_adhoc\\_report\\_0321.pdf](https://www.ieee802.org/3/minutes/mar21/PDCC_adhoc_report_0321.pdf)

## **MOTION #3 as amended**

Appoint Marek Hajduczenia as an IEEE 802.3 liaison officer to serve as principal IEEE 802.3 representative to NFPA 70 CMP 16.

M: C. Jones    S: B. Voss

Technical (>= 75%)

Approve: 103 ; Disapprove: 0; Abstain: 5

Motion Passed 11-March 2021, 15:14 UTC

Due to technical difficulties with Mr. Law's teleconference connection, Adam Healey continued to chair the meeting.

#### **MOTION #4**

Move to amend motion #3 from:

“Nominate Marek Hajduczenia as an IEEE 802.3 liaison officer to serve as Principal IEEE 802.3 organizational representative to NFPA 70 CMP 16”

to:

“Appoint Marek Hajduczenia as an IEEE 802.3 liaison officer to serve as principal IEEE 802.3 representative to NFPA 70 CMP 16.”

M: G. Zimmerman      S: C. Jones

Procedural (> 50%)

Motion Passed 11-March 2021, 15:10 UTC

Mr. Law resumed chairing the meeting.

#### **MOTION #5**

Move that the IEEE 802.3 Working Group approve:

[IEEE 802d3 to ITU T SG5 0321.pdf](#) and [T0A0F00002B0005MSWE.pdf](#)  
with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ITU-T SG5.

M: C. Jones

S: M. Hadjuczenia

Technical ( $\geq$  75%)

Approve: 121; Disapprove: 0; Abstain: 3

Motion Passed 11-March 2021, 15:27 UTC

IEEE P802.3ct Task Force and P802.3cw Task Force – John D'Ambrosia

[https://www.ieee802.org/3/minutes/mar21/0321\\_3ctcw\\_mid\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_3ctcw_mid_report.pdf)

## **MOTION #6**

Move that the IEEE 802.3 Working Group re-affirm the CSD responses in <https://www.ieee802.org/3/ct/ProjDoc/ec-18-0249-01-ACSD-p802-3ct.pdf> and request conditional approval to progress the IEEE P802.3ct draft to RevCom once the IEEE Standards Association ballot process has been successfully completed.

M: J. D'Ambrosia

S: T. Issenhuth

Technical ( $\geq 75\%$ )

Approve: 125; Disapprove: 0; Abstain: 5

Motion Passed 11-March 2021, 15:36 UTC

## **MOTION #7**

Move that the IEEE 802.3 Working Group approve:

- [IEEE\\_802d3\\_to\\_ITU\\_CAB\\_3ct\\_0321\\_draft.pdf](#)
- [IEEE\\_802d3\\_to\\_OIF\\_3cw\\_0321\\_draft.pdf](#)
- [IEEE\\_802d3\\_to\\_ITU\\_3cw\\_0321\\_draft.pdf](#)

with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ITU-T SG15/Cablelabs; OIF; ITU-T SG15.

M: J. D'Ambrosia

S: T. Issenhuth

Technical ( $\geq 75\%$ )

Approve: 129; Disapprove: 0; Abstain: 2

Motion Passed 11-March 2021, 15:48 UTC

IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs Task Force - Frank Effenberger

[https://www.ieee802.org/3/minutes/mar21/0321\\_cp\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_cp_open_report.pdf)

IEEE 802.3cr Maintenance #14: Isolation Task Force – George Zimmerman for Jon Lewis

[https://www.ieee802.org/3/minutes/mar21/0321\\_cr\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_cr_open_report.pdf)

IEEE 802.3cs – Increased-reach Ethernet optical subscriber access (Super-PON) Task Force – Claudio DeSanti

[https://www.ieee802.org/3/minutes/mar21/0321\\_cs\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_cs_open_report.pdf)

IEEE 802.3cu 100 Gb/s per lane optical PHYs Task Force – Mark Nowell

[https://www.ieee802.org/3/minutes/mar21/0321\\_cu\\_open\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_cu_open_report.pdf)

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

[https://www.ieee802.org/3/minutes/mar21/802d3cv\\_update\\_task\\_force\\_report\\_0321.pdf](https://www.ieee802.org/3/minutes/mar21/802d3cv_update_task_force_report_0321.pdf)

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

[https://www.ieee802.org/3/minutes/nov20/802d3cx\\_update\\_task\\_force\\_report\\_1120.pdf](https://www.ieee802.org/3/minutes/nov20/802d3cx_update_task_force_report_1120.pdf)

IEEE P802.3db 100 Gb/s per Wavelength Short Reach PHYs Study Group - Robert Lingle Jr.

[https://www.ieee802.org/3/minutes/mar21/802d3db\\_task\\_force\\_report\\_2021-03-11pptx.pdf](https://www.ieee802.org/3/minutes/mar21/802d3db_task_force_report_2021-03-11pptx.pdf)

IEEE 802.3 Beyond 400 Gigabit Ethernet Study Group - John D’Ambrosia

[https://www.ieee802.org/3/minutes/mar21/0321\\_b400g\\_mid\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_b400g_mid_report.pdf)

Mr. Law noted that the agenda had been exhausted and asked if there was other business for the Working Group, none responded.

Mr. Law noted that clocks were changing in some regions on Sunday, 14 March 2021, and noted that the closing plenary was scheduled at 14:00 UTC which might be different for some participants than today’s meeting start time. Mr. Law then reminded the group to check the 802.3 call and meeting calendar for their specific local starting time for the closing plenary.

**MOTION #7**

Adjourn the meeting

M: J. D’Ambrosia

S: M. Laubach

Procedural (> 50%)

Motion Passed by unanimous consent 11-March 2021, 16:16 UTC

Mr. Law then adjourned the meeting.

Adjourned.

**Unapproved Minutes**  
**IEEE 802.3 Ethernet Working Group**  
**Virtual closing plenary Meeting**  
**March 18, 2021**

<https://www.ieee802.org/3/minutes/mar21/index.html>

**THURSDAY, 18 MARCH 2021**

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 noted that this was an inconvenient time for some and thanked the group for attending. Mr. Law also wished everyone is staying safe and is well.

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:

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_closing\\_plenary.pdf](https://www.ieee802.org/3/minutes/mar21/0321_802_3_closing_plenary.pdf)

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 P802.3ck 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 P802.3cs 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 P802.3cv Power over Ethernet (Maintenance #15): Chad Jones

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

IEEE P802.3cy Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson

IEEE P802.3cz Multi Gigabit Automotive Optical PHYs Study Group: Bob Grow

IEEE P802.3da 10SPE Multidrop Enhancements Study Group: Chad Jones

IEEE P802.3db 100 Gb/s per Wavelength Short Reach PHYs Study Group: Robert Lingle Jr.

IEEE P802.3 (IEEE 802.3dc) Ethernet revision (Maintenance #16): Adam Healey

IEEE 802.3 Task Force vice-chairs

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted

IEEE P802.3ct 100 Gb/s over DWDM systems: Tom Issenhuth

IEEE P802.3cw 400 Gb/s over DWDM systems: Tom Issenhuth

IEEE 802.3 Study Group chair

IEEE 802.3 Beyond 400 Gb/s Ethernet Study Group: John D'Ambrosia

### **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the closing report. Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_closing\\_plenary.pdf#page=4](https://www.ieee802.org/3/minutes/mar21/0321_802_3_closing_plenary.pdf#page=4).

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

#### **MOTION #1**

Approve the agenda

M: J. D'Ambrosia     S: B Voss

Procedural (> 50%)

Motion Passed by unanimous consent 18-March 2021, 14:08 UTC

### **Call for patents**

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_closing\\_plenary.pdf#page=6](https://www.ieee802.org/3/minutes/mar21/0321_802_3_closing_plenary.pdf#page=6).

Mr. Law showed the IEEE patent policy slides and asked if anyone had not seen these during the plenary series meetings, none responded.

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.

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_closing\\_plenary.pdf#page=11](https://www.ieee802.org/3/minutes/mar21/0321_802_3_closing_plenary.pdf#page=11)

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;
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA. For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

Mr. Law reviewed the IEEE SA participation slides.

[https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_3\\_closing\\_plenary.pdf#page=14](https://www.ieee802.org/3/minutes/mar21/0321_802_3_closing_plenary.pdf#page=14)

Mr. Law advised participants that:

- Participants in the IEEE-SA "individual process" under which the project operates shall act independently of others, including employers, and shall act based on their qualifications and experience. By participating in standards activities using the "individual process", you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation.

### **General Working Group business**

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

75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)

Request to become member during IEEE 802.3 potential voter agenda item

Participate in 2 of last 3 WG ballots 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 [https://www.ieee802.org/3/minutes/mar21/0321\\_voters.pdf](https://www.ieee802.org/3/minutes/mar21/0321_voters.pdf).

Review of voters in peril

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_peril.pdf](https://www.ieee802.org/3/minutes/mar21/0321_peril.pdf)

Review of Potential voters

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_potential.pdf](https://www.ieee802.org/3/minutes/mar21/0321_potential.pdf)

The following participants requested voting rights during the closing plenary:

Bhatt, Vipul

Haser, Alex

Yang, Yumeng

Mr. Law then reviewed the IEEE 802 Executive Committee report, including that all the items forwarded from the mid-session plenary were approved.

802 EC Items – John D’Ambrosia

Please see: [https://www.ieee802.org/3/minutes/mar21/0321\\_802\\_EC.pdf](https://www.ieee802.org/3/minutes/mar21/0321_802_EC.pdf)

Future Meetings report - Steve Carlson

[https://www.ieee802.org/3/minutes/mar21/0321\\_meetings.pdf](https://www.ieee802.org/3/minutes/mar21/0321_meetings.pdf)

IEEE 802.3 Maintenance Task Force – Adam Healey

[https://www.ieee802.org/3/minutes/mar21/0321\\_maint\\_close\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_maint_close_report.pdf)

**MOTION #2**

Submit IEEE Std 802.3cr-2021 and IEEE Std 802.3cu-2021 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: 150    N: 0    A: 2

Motion Passed 18-March 2021, 16:39 UTC

IEEE 802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force – Beth Kochuparambil

Please see: [https://www.ieee802.org/3/minutes/mar21/0321\\_3ck\\_close\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_3ck_close_report.pdf)

**MOTION #3**

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

M: Beth Kochuparambil

S: Kent Lusted

Technical ( $\geq 75\%$ )

Y: 126 N: 0 A: 27

Motion Passed 18-March 2021, 16:47 UTC

**MOTION #4**

Approve the liaisons from IEEE 802.3 to COBO, Gen-Z Consortium, INCITS T11.2, and OIF:

[https://iee802.org/3/minutes/mar21/outgoing/IEEE\\_802d3\\_to\\_COBO\\_0321\\_draft1.pdf](https://iee802.org/3/minutes/mar21/outgoing/IEEE_802d3_to_COBO_0321_draft1.pdf)

[https://iee802.org/3/minutes/mar21/outgoing/IEEE\\_802d3\\_to\\_Gen-Z\\_0321\\_draft1.pdf](https://iee802.org/3/minutes/mar21/outgoing/IEEE_802d3_to_Gen-Z_0321_draft1.pdf)

[https://iee802.org/3/minutes/mar21/outgoing/IEEE\\_802d3\\_to\\_T11-2\\_0321\\_draft1.pdf](https://iee802.org/3/minutes/mar21/outgoing/IEEE_802d3_to_T11-2_0321_draft1.pdf)

[https://iee802.org/3/minutes/mar21/outgoing/IEEE\\_802d3\\_to\\_OIF\\_CEI\\_0321\\_draft1.pdf](https://iee802.org/3/minutes/mar21/outgoing/IEEE_802d3_to_OIF_CEI_0321_draft1.pdf)

with editorial license granted to the chair or his appointed agent.

M: Beth Kochuparambil

S: Kent Lusted

Technical ( $\geq 75\%$ )

Motion Passed by unanimous consent 18-March 2021, 16:56 UTC

IEEE 802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs Task Force – Frank Effenberger

Please see [https://www.ieee802.org/3/minutes/mar21/Conditional\\_approval\\_3cp.pdf](https://www.ieee802.org/3/minutes/mar21/Conditional_approval_3cp.pdf)

**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-18-0245-00-ACSD-p802-3cp.pdf> and give conditional approval to progress the IEEE P802.3cp draft to RevCom once the IEEE Standards Association ballot process has been successfully completed.

M: Frank Effenberger of behalf of the Task Force

Y: 141 N: 0 A: 8

Technical ( $\geq 75\%$ )

Motion Passed 18-March 2021, 17:03 UTC

IEEE 802.3cs – Increased-reach Ethernet optical subscriber access (Super-PON) Task Force – Claudio DeSanti

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_cs\\_close\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_cs_close_report.pdf)

**MOTION #6**

Move that the IEEE 802.3 Working Group progress the IEEE P802.3cs draft 2.0 (Initial Ballot version) to Working Group ballot.

M: Claudio DeSanti of behalf of the Task Force

Technical ( $\geq 75\%$ )

Motion Passed by unanimous consent 18-March 2021, 17:07 UTC

**MOTION #7**

Move that the IEEE 802.3 Working Group approve [IEEE\\_802d3\\_to\\_Q2SG15\\_0321\\_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 Q2/SG15.

M: Claudio DeSanti of behalf of the Task Force

Y: 128 N: 0 A: 8

Technical ( $\geq 75\%$ )

Motion Passed 18-March 2021, 17:13 UTC

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

Please see

[https://www.ieee802.org/3/minutes/mar21/802d3cv\\_task\\_force\\_close\\_report\\_0321.pdf](https://www.ieee802.org/3/minutes/mar21/802d3cv_task_force_close_report_0321.pdf)

**MOTION #8**

Move that the IEEE 802.3 Working Group request approval to submit the IEEE P802.3cv Draft 3.1 to RevCom.

M: Chad Jones on behalf of the Task Force

Y: 127 N: 0 A: 3

Technical ( $\geq 75\%$ )

Motion Passed 18-March 2021, 17:16 UTC

EEE P802.3cx Improved PTP timestamping accuracy Task Force – Steve Gorshe

**MOTION #9**

Move that the IEEE P802.3 Working Group approve [IEEE 802d3 to ITU-T SG15 Q13 0321 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 Q13/SG15.

M: Steve Gorshe on behalf of the Task Force

Y: 122 N: 0 A: 6

Technical ( $\geq 75\%$ )

Motion Passed 18-March 2021, 17:20 UTC

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force – Robert Lingle

**MOTION #10**

Move that the IEEE P802.3 Working Group approve [IEEE 802d3 to T11-2 0321 draft2.pdf](#) with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to INCITS T11.2

M: Robert Lingle on behalf of the Task Force

Technical ( $\geq 75\%$ )

Motion Passed by unanimous consent 18-March 2021, 17:26 UTC

IEEE 802.3 Beyond 400 Gigabit Ethernet Study Group – John D’Ambrosia

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_b400g\\_close\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_b400g_close_report.pdf)

**MOTION #11**

Move that the IEEE 802.3 Working Group request the re-chartering of the "IEEE 802.3 Beyond 400 Gb/s Ethernet" Study Group.

M: John D’Ambrosia

S: Tom Issenhuth

Y: 117 N: 0 A: 7

(> 50%)

Motion Passed 18-March 2021, 17:30 UTC

IEEE 802.3 Enhancements to Single Pair Ethernet call for interest – George Zimmerman

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_SPEenhance\\_closing\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_SPEenhance_closing_report.pdf)

**MOTION #12**

Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop Project Authorization Requests (PAR) and Criteria for Standards Development (CSD) responses for Enhancements to point-to-point Single Pair Ethernet to:

1. Support TSN, and
2. Support increasing traffic and speed needs with long reach point-to-point higher-speed single-pair PHYs

M: George Zimmerman

S: Harald Mueller

Y: 119 N: 1 A: 12

(> 50% by rule)

Motion Passed 18-March 2021, 17:43 UTC

Mr. Law reported that should the study group be approved by the 802 EC, he will appoint George Zimmerman as the study group chair.

IEEE Std 802.3cm-2020 awards – Robert Lingle

IEEE 802.3 Industry Connections New Ethernet Applications Ad Hoc – Jon Lewis

Please see [https://www.ieee802.org/3/minutes/mar21/0321\\_NEA\\_report.pdf](https://www.ieee802.org/3/minutes/mar21/0321_NEA_report.pdf)

Other business:

**MOTION #13**

Motion to adjourn

M: J. D’Ambrosia

S: B. Voss

Procedural (> 50%)

Motion Passed by unanimous consent 18-March 2021, 17:58 UTC

Adjourned.

The list of participants for this meeting (including employers and affiliations) can be found at:  
[http://www.ieee802.org/3/minutes/mar21/0321\\_attendance\\_teleconference.pdf](http://www.ieee802.org/3/minutes/mar21/0321_attendance_teleconference.pdf)

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