

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group**  
**Virtual Interim Working Group Meeting**  
**January 20, 2022**

<https://www.ieee802.org/3/minutes/jan22/index.html>

**THURSDAY, 20 JANUARY 2022**

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.

If you are attending by phone all slides are posted on the webpage:

<https://www.ieee802.org/3/minutes/jan22/index.html>

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 P802.3cs Ethernet access PMDs for central office consolidation (Super-PON): Claudio DeSanti

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

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 P802.3dd Power over Data Lines of Single Pair Ethernet (Maintenance #17) Task Force: George Zimmerman

IEEE P802.3de IEEE P802.3de MAC Merge and TSSI enhancements for Point to Point Single Pair Ethernet: George Zimmerman

IEEE P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet: John D'Ambrosia

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

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet: Natalie Wienckowski

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber: Mabud Choudhury

IEEE P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet: Mark Nowell

IEEE 802.3 Study Group chair

IEEE 802.3 IEEE 802.3 Enhancements to point to point Single Pair Ethernet Study Group:  
George Zimmerman

IEEE 802.3 Study Group vice-chair

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet: Steve Carlson

Mr. Law introduced the procedure for including your affiliation in your screen name and noted that Mr. Carlson would be monitoring this during the meeting.

### **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the opening report. Please see [https://www.ieee802.org/3/minutes/jan22/0122\\_802\\_3\\_interim.pdf#page=4](https://www.ieee802.org/3/minutes/jan22/0122_802_3_interim.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: B. Voss

S: J. D'Ambrosia

Procedural (> 50%)

Motion Passed by unanimous consent 20-Jan 2022, 14:08 UTC

## **Call for patents**

Please see [https://www.ieee802.org/3/minutes/jan22/0122\\_802\\_3\\_interim.pdf#page=6](https://www.ieee802.org/3/minutes/jan22/0122_802_3_interim.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.

## **Copyright policy**

Mr. Law reviewed the IEEE SA copyright slides.

[https://www.ieee802.org/3/minutes/jan22/0122\\_802\\_3\\_interim.pdf#page=11](https://www.ieee802.org/3/minutes/jan22/0122_802_3_interim.pdf#page=11)

Mr. Law advised the 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.

## **Participation policy**

Mr. Law reviewed the IEEE SA participation slides.

[https://www.ieee802.org/3/minutes/jan22/0122\\_802\\_3\\_interim.pdf#page=14](https://www.ieee802.org/3/minutes/jan22/0122_802_3_interim.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.

## LIAISONS

### External Liaison letters (old)

External Liaison letters (old)

ITU-T SG15: 100 Gb/s, 200 Gb/s and 400 Gb/s Bidirectional Access Optics [liaison letter](#)

#### **MOTION #2**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_ITU\_3df\_0122\_draft\_Redacted.pdf 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.

M: J. D'Ambrosia

S: F. Effenberger

Technical >75%

Y:96 N:0 A: 1

Motion Passed 20-Jan 2022, 14:21 UTC

### External Liaison letters (new)

ISO/IEC JTC1/SC25 to IEC/TC 64: Remote powering for single pair ICT applications liaison letter and attachment

ITU-T SG5: Response to comments on recommendation ITU-T K.147 liaison letter

ITU-T SG9: New recommendation ITU-T J.198.1 (ex J.HiNoC3-REQ) liaison letter and attachment

ITU-T SG9: Revision of Access Network Transport Standards Overview and Work Plan liaison letter

ITU-T SG9: Revision to Home Network Transport Standards Overview and Work Plan liaison letter

ITU-T SG15: Response to comments on Access Network Transport and Home Network Transport Standards Overview and Work Plan 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: OTNT Standardization Work Plan Issue 30 liaison letter and attachment

ITU-T SG15: Status of IEEE P802.3cw project [liaison letter](#)

ITU-T SG15: Status of IEEE P802.3cx Task Force [liaison letter](#) and [attachment](#)

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

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

Future Meetings report - Steve Carlson

[https://www.ieee802.org/3/minutes/jan22/0122\\_meetings.pdf](https://www.ieee802.org/3/minutes/jan22/0122_meetings.pdf)

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

IEEE 802.3 Maintenance – Adam Healey

**MOTION #3**

Approve IEEE\_802d3\_to\_ISOIEC\_JTC1\_SC6\_0122\_draft.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ISO/IEC JTC 1/SC 6.

M: A. Healey

S: S. Carlson

Technical >75%

Y: 112 N: 0 A: 0

Motion Passed 20-Jan 2022, 14:50 UTC

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

Please see: [https://www.ieee802.org/3/minutes/jan22/IEEE\\_P802d3cx\\_revised\\_objective.pdf](https://www.ieee802.org/3/minutes/jan22/IEEE_P802d3cx_revised_objective.pdf)

**MOTION #4**

Move to adopt “Define optional enhancements to IEEE Std 802.3 Clause 90 (support for time synchronization protocols) to support applications requiring sub-nanosecond performance requirements, e.g., “ITU-T Recommendation G.8273.2 'Class C' and 'Class D' system time error performance requirements.”” as the revised P802.3cx objective.

M: Steve Gorshe                      S: Jim Weaver

Technical >75%

Motion Passed by Unanimous consent 20-Jan 2022, 14:55 UTC

**MOTION #5**

Approve IEEE\_802d3\_to\_IEEE\_802d1\_draft\_P802d3cx\_0122.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to IEEE 802.1.

M: S. Gorshe                      S: G. Thompson

Technical >75%

Motion Passed by Unanimous consent 20-Jan 2022, 15:06 UTC

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

Please see: [https://www.ieee802.org/3/minutes/jan22/0122\\_P802d3cz\\_01\\_report.pdf](https://www.ieee802.org/3/minutes/jan22/0122_P802d3cz_01_report.pdf)

Mr. Law asked Mr. Healey to take over as chair of the meeting at 15:24 UTC.

Discussion concerning IEEE P802.3cz Task Force and the issues which have resulted in a lack of progress.

Mr. Watanabe asked Mr. Grow to provide further information about splitting the PAR off-line.

Mr. Law resumed as chair at 15:54 UTC

Mr. Law noted that if progress continued to stall on IEEE P802.3cz that a Working Group meeting would be announced to address the issues.

The meeting took a short break at 15:55 UTC

The meeting resumed at 16:00 UTC

Please see:

<https://www.ieee802.org/3/minutes/jan22/IEEE%20P803.2db%20Closing%20Report%202022-01-20.pdf>

**MOTION #6**

Request conditional approval to progress the IEEE P802.3db draft to SA ballot once the Working Group ballot process has been successfully completed.

Moved by Robert Lingle on behalf of the Task Force

Technical (> 75%)

Y: 87 N: 0 A: 2

Motion Passed 20-Jan 2022, 16:11 UTC

**MOTION #7**

Move to reaffirm the CSD responses in <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0097-01-ACSD-p802-3db.pdf>.

M: Robert Lingle on behalf of the Task Force

Technical (> 75%)

Y: 88 N: 0 A: 2

Motion Passed 20-Jan 2022, 16:15 UTC

**MOTION #8**

Move that the IEEE 802.3 Working Group approve IEEE\_802d3\_to\_T11-2\_01122\_draft1\_Redacted.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: Mabud Choudhury

S: Robert Lingle Jr

(Technical >=75%)

Motion Passed by unanimous consent 20-Jan 2022, 16:19 UTC

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

Please see: [https://www.ieee802.org/3/minutes/jan22/PDCC\\_adhoc\\_close\\_0122.pdf](https://www.ieee802.org/3/minutes/jan22/PDCC_adhoc_close_0122.pdf)

**MOTION #9**

Move that the IEEE 802.3 Working Group approve:  
IEEE\_802d3\_to\_TC64\_0122\_draft\_Redacted.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to IEC TC64

M: Chad Jones                      S: George Zimmerman

Technical ( $\geq 75\%$ )

Y: 86   N: 0   A: 3

Motion Passed 20-Jan 2022, 16:24 UTC

**MOTION #10**

Move that the IEEE 802.3 Working Group approve:  
IEEE\_802d3\_to\_SC25\_0122\_3068CD\_draft\_Redacted.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ISO/IEC JTC1/SC25

M: Chad Jones                      S: George Zimmerman

Technical  $>75\%$

Motion Passed by unanimous consent 20-Jan 2022, 16:47 UTC

IEEE P802.3cw 400 Gb/s over DWDM Systems Task Force – John D’Ambrosia

Please see: [https://www.ieee802.org/3/minutes/jan22/0122\\_3cw\\_close\\_report.pdf](https://www.ieee802.org/3/minutes/jan22/0122_3cw_close_report.pdf)

IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet Task Force – George Zimmerman

Please see: [https://www.ieee802.org/3/minutes/jan22/8023de\\_TF\\_report\\_Jan2022.pdf](https://www.ieee802.org/3/minutes/jan22/8023de_TF_report_Jan2022.pdf)

IEEE 802.3 New Ethernet Applications (NEA) Industry Connection ad hoc – Jon Lewis

Please see: [https://www.ieee802.org/3/minutes/jan22/0122\\_NEA\\_report.pdf](https://www.ieee802.org/3/minutes/jan22/0122_NEA_report.pdf)



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

**MOTION #11**

Adjourn the meeting

M: G. Thompson

S: S. Carlson

Procedural (> 50%)

Motion Passed by unanimous consent 20-Jan 2022, 17:00 UTC

Mr. Law then adjourned the meeting.

Adjourned.

The list of participants for this meeting (including employers and affiliations) can be found at [https://www.ieee802.org/3/minutes/jan22/802d3\\_Jan\\_interim\\_attendance.pdf](https://www.ieee802.org/3/minutes/jan22/802d3_Jan_interim_attendance.pdf)

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