

**Approved Minutes**  
**IEEE 802.3 Ethernet Working Group**  
**Virtual Interim Working Group Meeting**  
**January 19, 2023**

[https://www.ieee802.org/3/minutes/jan23/0123\\_agenda.pdf](https://www.ieee802.org/3/minutes/jan23/0123_agenda.pdf)

**THURSDAY, 19 JAN 2023**

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 all slides are posted on the webpage:

<https://www.ieee802.org/3/minutes/jan23/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 P802.3cw 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 P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet: John D'Ambrosia

IEEE P802.3dg 100 Mb/s Long-Reach Single Pair Ethernet: George Zimmerman

IEEE P802.3dh Multi-Gigabit Automotive Ethernet over Plastic Optical Fiber: Yuji Watanabe

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

IEEE P802.3dk Greater than 50 Gb/s Bidirectional Optical Access PHYs: Yuanqiu Luo

IEEE 802.3 Task Force vice-chairs

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

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

Mr. Law introduced the procedure for individuals to include their affiliation in their screen name and noted that Mr. Carlson would be monitoring this during the meeting. Mr. Law also noted that the queue would be managed using the “Raise Hand” feature of the teleconference tool and showed the instructions:

Please see: [https://www.ieee802.org/3/interims/Zoom\\_guidelines\\_0522.pdf](https://www.ieee802.org/3/interims/Zoom_guidelines_0522.pdf)

### **Working Group Decorum**

Mr. Law introduced the Working Group decorum as described in the opening report. Please see [https://www.ieee802.org/3/minutes/jan23/0123\\_802\\_3\\_interim.pdf#page=3](https://www.ieee802.org/3/minutes/jan23/0123_802_3_interim.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. There was no response.

Mr. Law recognized Matt Brown, Gary Nicholl, and Mark Nowell as recipients of 2022 IEEE-SA Standards Medallions.

Mr. Law recognized Steve Carlson as a recipient of a 2022 IEEE-SA Lifetime Achievement Award.

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

Mr. Law noted that a soft copy of the draft agenda had been posted to the minutes section of the website for this meeting.

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

Mr. Law noted that Robert Lingle’s availability is limited and the awards for IEEE Std 802.3db-2022 would be during a specific time slot.

#### **MOTION #1**

Approve the agenda.

M: M. Hajduczenia

S: J. D’Ambrosia

Procedural (> 50%)

Motion Passed by unanimous consent 19 January 2023, 14:10 UTC

## **Call for patents**

Please see [https://www.ieee802.org/3/minutes/jan23/0123\\_802\\_3\\_interim.pdf#page=8](https://www.ieee802.org/3/minutes/jan23/0123_802_3_interim.pdf#page=8).

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/jan23/0123\\_802\\_3\\_interim.pdf#page=13](https://www.ieee802.org/3/minutes/jan23/0123_802_3_interim.pdf#page=13)

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/jan23/0123\\_802\\_3\\_interim.pdf#page=16](https://www.ieee802.org/3/minutes/jan23/0123_802_3_interim.pdf#page=16)

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 at an IEEE 802.3

Opening or Closing plenary meeting

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)

ISO/IEC JTC 1/SC 25/WG 3: Multi-drop cabling [liaison letter](#)

#### **MOTION #2**

Move that the IEEE 802.3 Working Group approve:

[IEEE\\_802d3\\_to\\_SC25\\_3N1329\\_0123\\_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 ISO/IEC JTC 1/SC 25/WG 3

M: C. Jones

S: G. Thompson

Technical ( $\geq 75\%$ )

Motion Passed 19 January 2023, 14:35 UTC

ISO/IEC JTC 1/SC 25/WG 3: Single pair cabling [liaison letter](#)

### **MOTION #3**

Move that the IEEE 802.3 Working Group approve:

[IEEE 802d3 to SC25 0123 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 ISO/IEC JTC 1/SC 25/WG 3.

M: C. Jones

S: J. Weaver

Technical ( $\geq 75\%$ )

Motion Passed 19 January 2023, 14:40 UTC

ITU-T SG15: Latest version of ANT and HNT Standards Overviews and Work Plans [liaison letter](#)

ITU-T SG15: New version of ANT Standards Overview and Work Plan [liaison letter](#)

ITU-T SG15: New version of the HNT Standards Overview and Work Plan [liaison letter](#)

ITU-T SG15: OTNT Standardization Work Plan Issue 31 [liaison letter](#) and [attachment](#)

Mr. Law noted that based on the date of the next ITU-T SG15 meeting, responses to the work plan letters would need to be considered at the March plenary meeting and then announced that Bob Grow, Marek Hajduczenia and Tom Huber will run Ad Hocs to draft responses to the ANT, HNT and OTNT letters respectively and that anybody that would like to assist in the drafting should contact them directly.

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

ISO/IEC JTC 1/SC 6/AG 4: Invitation to [modulation and coding scheme \(MCS\) innovation Ad Hoc](#) meeting

Mr. Law noted the scope of this project:

- Study MCS technological gaps (MCS deficiencies and market needs) and the gap analysis shall cover those MCS application fields that represent various levels of MCS efficiencies.
- Study the requirements of innovation of MCS systems and make recommendations.
- Collect, identify and evaluate innovative MCS technologies and make recommendations for their adoption by SC 6 as standardization projects.
- Non-MCS features that provide system level spectral and power efficiency are excluded from the MCS innovation scope except in comparative analysis.

Mr. Law noted that AG 4 is similar to an Industry Connection activity in IEEE 802.3, that the Ad Hoc has been focused on wireless up to now. Mr. Law then noted that he was recently contacted by the AG 4 Convenor who informed him that their next meeting on 15 February 2023 will consider LAN (Ethernet) MCS challenges. Mr. Law then note that the category A liaison with ISO/IEC JTC 1/SC 6 is held by IEEE 802 and that the IEEE 802 ISO/IEC JTC 1/SC 6 Ad Hoc

oversees the liaison, that they have considered AG 4 and agreed that IEEE 802 should monitor it, but up to now IEEE 802 has not nominated any experts to participate. Mr. Law then sought volunteers to attend the next meeting.

Mr. Zimmerman asked if this was a teleconference or if travel is required, Mr. Law replied that it wasn't noted in the letter, and he would inquire about the meeting requirements. Mr. Zimmerman volunteered if the meeting was being held as a teleconference.

Mr. Law asked if there any objection to having the awards for IEEE P802.3db at this time, none responded.

Mr. Lingle presented the awards for IEEE P802.3db.

ITU-T SG15 Q13/15: Timestamping capabilities available in the IEEE 802.3 standard [liaison letter](#)

Mr. Law noted that he had asked the IEEE P802.3cx Task Force to consider this letter, and propose a response, if necessary, at the March 2023 plenary session.

OIF: 800LR IA Project update [liaison letter](#)

Mr. Law noted that he had asked the IEEE P802.3df and IEEE P802.3dj Task Forces to consider this letter, and propose a response, if necessary, at the March 2023 plenary session.

Future Meetings report - Steve Carlson

[https://www.ieee802.org/3/minutes/jan23/0123\\_meetings.pdf](https://www.ieee802.org/3/minutes/jan23/0123_meetings.pdf)

Mr. Carlson reminded the group of the [802.3 meeting calendar](#).

IEEE 802.3 Maintenance Task Force – Adam Healey

Please see: [https://www.ieee802.org/3/minutes/jan23/0123\\_maint\\_report-r1.pdf](https://www.ieee802.org/3/minutes/jan23/0123_maint_report-r1.pdf)

**MOTION #4**

Approve the IEEE P802.3.1 Revision to IEEE Std 802.3.1-2013 (IEEE 802.3.1b) PAR in [P802d3d1\\_PAR\\_draft\\_0123\\_r1.pdf](#).

M: A. Healey

S: M. Hajduczenia

Technical ( $\geq 75\%$ )

Y: 101 N: 0 A: 3

Motion Passed 19 January 2023, 15:28 UTC

**MOTION #5**

Approve the IEEE P802.3.2 Revision to IEEE Std 802.3.2-2019 (IEEE 802.3.2a) PAR in [P802d3d2 PAR draft 0123\\_r1.pdf](#).

M: A. Healey

S: M. Hajduczenia

Technical ( $\geq 75\%$ )

Y: 93 N: 0 A: 3

Motion Passed 19 January 2023, 15:31 UTC

IEEE P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Task Force– John D’Ambrosia

**MOTION #6**

Move that the Working Group approve [IEEE 802d3 to ITU 3df 2301 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 Q11/15.

M: J. D’Ambrosia

S: T. Huber

Technical ( $\geq 75\%$ )

Y: 108 N: 0 A: 3

Motion Passed 19 January 2023, 15:38 UTC

Please see: [https://www.ieee802.org/3/minutes/jan23/PDCC\\_adhoc\\_close\\_report\\_0123.pdf](https://www.ieee802.org/3/minutes/jan23/PDCC_adhoc_close_report_0123.pdf)

**MOTION #7**

Move that the IEEE 802.3 Working Group approve:

IEEE\_802d3\_to\_SC25\_0123\_no2\_draft\_Redacted.pdf and

[https://www.ieee802.org/3/ad\\_hoc/PDCC/public/Comments%20to%2011801-9911\\_3N1334\\_WD\\_802d3.pdf](https://www.ieee802.org/3/ad_hoc/PDCC/public/Comments%20to%2011801-9911_3N1334_WD_802d3.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 JTC 1/SC 25/WG 3.

M: C. Jones

S: G. Thompson

Technical ( $\geq 75\%$ )

Motion Passed by unanimous consent 19 January 2023, 15:44 UTC

It was noted that the IEEE 802.3 delegation to the February/March 2023 ISO/IEC JTC 1/SC 25/WG 3 appreciates SC25 WG3's acknowledgement and accommodation of the issues highlighted by the delegation and looks forward to working with SC25 WG3 to finalize the solutions proposed by SC25 WG3 in at their September 2022 meeting.

**MOTION #8**

The IEEE 802.3 delegation to the February/March 2023 ISO/IEC JTC 1/SC 25/WG 3 meeting series, and any subsequent meetings required to complete the work of that series, shall be guided by:

Supporting the development of ISO/IEC JTC 1/SC 25/WG 3 projects related to single-pair Ethernet in accordance with the guidance provided to the delegation at the IEEE 802.3 July 2022 Plenary

Support the January 2023 IEEE 802.3 comments to ISO/IEC JTC 1/SC 25/WG 3 on Working Draft of ISO/IEC 11801-9911

M: R. Grow

S: M. Hajduczenia

Technical ( $\geq 75\%$ )

Motion Passed 19 January 2023, 15:49 UTC



IEEE 802.3 TIA Application Table Ad Hoc – George Zimmerman

[https://www.ieee802.org/3/private/liaison\\_docs/tia/1122\\_TIA\\_TR42\\_2nd\\_report\\_application\\_tables\\_802d3\\_comments.pdf](https://www.ieee802.org/3/private/liaison_docs/tia/1122_TIA_TR42_2nd_report_application_tables_802d3_comments.pdf)

Mr. Zimmerman indicated that the liaison officer, Chris DiMinico, would submit this to TIA TR-42. Mr. Zimmerman noted that the ad hoc had completed and would not meet again.

Mr. DeSanti presented the awards for IEEE P802.3cs.

Other Business:

Mr. Nikolich, IEEE 802 Standards Committee Chair, announced that he is seeking individuals that would be willing to serve as Chair for IEEE 802 or other IEEE 802 positions, and to contact him or the current position holders to discuss.

Mr. Nikolich also noted that he was recently appointed to the treasurer of the IEEE-SA.

Mr. Law noted that the agenda had been exhausted and asked if there was other business for the Working Group.

**MOTION #8**

Adjourn the meeting

M: J. D'Ambrosia

S: G. Thompson

Procedural (> 50%)

Motion Passed by unanimous consent 19 January 2023, 16:06 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/jan23/802d3\\_Jan\\_interim\\_attendance.pdf](https://www.ieee802.org/3/minutes/jan23/802d3_Jan_interim_attendance.pdf)

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