

APPROVED MINUTES

IEEE 802.3 Ethernet Working Group

Working Group Meeting

January 23, 2025

<https://www.ieee802.org/3/minutes/jan25/index.html>

THURSDAY, 23 JANUARY 2025

Minutes were taken by recording secretary Jon Lewis.

ADMINISTRATIVE MATTERS

Call to order

David Law, Chair of the IEEE 802.3 Ethernet Working Group, called the meeting to order at 19:00 MST.

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 hybrid meeting.

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: Chad Jones

IEEE 802.3 Treasurer: Valerie Maguire

IEEE 802.3 Task Force chairs

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

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

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 P802.3dm Asymmetrical Electrical Automotive Ethernet: Jon Lewis

IEEE P802.3.2 (IEEE 802.3.2a) YANG Data Model Definitions (revision) Marek Hajduczenia

IEEE 802.3 Study Group Chairs

IEEE 802.3 Single-Pair Ethernet Powering Cabling Restrictions: Chad Jones

IEEE 802.3 Pin-Optimized PHY Interface Study Group: Jason Potterf

IEEE 802.3 Task Force vice-chairs

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

IEEE P802.3dm Asymmetrical Electrical Automotive Ethernet: Natalie Wienckowski

Working Group Decorum

Mr. Law introduced the Working Group decorum as described in the opening report. Please see https://www.ieee802.org/3/minutes/jan25/0125_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 including those who would run a public blog on this meeting other than those limited to summarizing the meeting. There was no response.

Mr. Law introduced the procedure for participants to include their affiliation in their screen name and noted other zoom guidelines for in-person and remote participants including the operation of the queues. Please see

https://www.ieee802.org/3/minutes/jan25/0125_802_3_interim.pdf#page=6.

Mr. Law shared with the group pictures from the 2024 IEEE awards ceremony.

Fellow Straw Polls

Three polls were conducted at the request of the IEEE 802 LMSC past Chair.

Straw Poll #1

How many participants are IEEE Fellows?

Answer: 2

Straw Poll #2

How many participants are IEEE Senior Members for at least 5 years?

Answer: 10

Straw Poll #3

How many participants are IEEE Senior Members for at least 5 years and have interest in being elevated to an IEEE Fellow?

Answer: 6

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 or corrections to the draft agenda, none responded.

MOTION #1

Approve the agenda.

M: John D'Ambrosia

S: Kent Lusted

Procedural (> 50%)

Motion Passed by unanimous consent, 19:23 MST

Call for patents

Please see

https://www.ieee802.org/3/minutes/jan25/0125_802_3_interim.pdf#page=16

Mr. Law showed the IEEE patent policy slides.

Mr. Law asked if anyone was aware of any patent claims potentially essential to the proposed standards under development by the IEEE 802.3 Working Group. There was no response.

Mr. Law asked that Mr. Lewis record that:

The patent policy, per the latest PatCom slide set, was shown

There was no response to the call for potentially essential patent claims

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/jan25/0125_802_3_interim.pdf#page=21

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/jan25/0125_802_3_interim.pdf#page=25

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

LIAISONS

Appointment of liaison officer

IEEE 802.3 liaison to INCITS/Fibre Channel

External Liaison letters (old)

ITU-T SG15: Access Network Transport (ANT) and Home Network Transport (HNT) Standards Overviews and Work Plans [liaison letter](#)

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

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

ITU-T SG15: OTNT Standardization Work Plan Issue 34 [liaison letter](#) and [attachment](#)

External Liaison letters (new)

OIF: 800LR/800ZR IA Project updates [liaison letter](#) and [attachment](#)

INCITS/Fibre Channel: Fibre Channel request for liaison relationship [liaison letter](#)

ISO/IEC JTC 1/SC 25/WG 3: Ongoing activities [liaison letter](#)

ISO/IEC JTC 1/SC 25/WG 3: Impact of optical return loss (ORL) on PON applications [liaison letter](#)

ITU-T SG15: LS/r on TQM and B400G [liaison letter](#) and [attachment](#)

ITU-T SG15: LS/r on FlexO payload type for 800GBASE-ER1 [liaison letter](#)

MOTION #2

Move to approve:

IEEE_802d3_to_SC25_WG3_PON_0125_draft_Redacted.pdf

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

M: John D'Ambrosia

S: Bob Voss

Technical ($\geq 75\%$)

Motion Passed by unanimous consent, 19:38 MST

Actions:

Future Meetings Report – Chad Jones

https://ieee802.org/3/minutes/jan25/0125_meetings.pdf

Mr. Law stopped the meeting and asked that the IMAT Session Code be provided and paused for participants to log their attendance. Mr. Law resumed the meeting once completed.

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

MOTION #3

The IEEE 802.3 WG approve:

IEEE_802d3_to_OIF_3dj_2501_Redacted.pdf

IEEE_802d3_to_ITU_3dj_2501_Redacted.pdf

IEEE_802d3_to_INC_3dj_2501_FC_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 OIF, ITU-T, and INCITS/Fibre Channel.

M: John D'Ambrosia

S: Kent Lusted

Technical ($\geq 75\%$)

Y: 62 N: 0 A: 2

Motion Passed, 19:56 MST

MOTION #4

Appoint Tom Palkert as the IEEE 802.3 Standards Committee External Liaison Coordinator (liaison officer) to INCITS/Fibre Channel.

M: John D’Ambrosia

S: Kent Lusted

Technical ($\geq 75\%$)

Y: 57 N: 0 A: 0

Motion Passed, 19:57 MST

IEEE 802.3 New Ethernet Applications Ad Hoc – Jon Lewis

MOTION #5

Move to approve

IEEE_802d3_to_EA_0125_Redacted.pdf

IEEE_802d3_to_ITUT_0125_Redacted.pdf

IEEE_802d3_to_OCP_0125_Redacted.pdf

IEEE_802d3_to_OIF_0125_Redacted.pdf

IEEE_802d3_to_SNIA_0125_Redacted.pdf

IEEE_802d3_to_UALINK_0125_Redacted.pdf

IEEE_802d3_to_UEC_0125_Redacted.pdf

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M: John D’Ambrosia

S: Bob Voss

Technical ($\geq 75\%$)

Motion Passed, 20:11 MST

Mr. Lewis announced to the group that two consensus building activities would be starting and that information would be sent to the reflector and meeting coordinates would be on the IEEE 802.3 Call and Meeting calendar.

Channel Operating Margin (COM) Code as Open Source - Kent Lusted

Mr. Law announced that he is forming the IEEE 802.3 COM open source ad hoc and appointing Kent Lusted as the chair.

Mr. Law asked if there was other business for the Working Group.

Mr. Jones and Mr. Law thanked the host of the interim meeting, Samtec, and the meeting planners.

Jodi Haasz noted that Jennifer Santulli will be shadowing her in March as Jodi will not be able to join the July plenary meeting and Jennifer will be assuming that role for the plenary.

Mr. Law noted that the agenda had been exhausted and then adjourned the meeting.

Adjourned.

Appendix A: Attendance list for Working Group meeting from IMAT & Zoom

Name	Employer	Affiliation	IMAT	Zoom
Baggett, Tim	Microchip Technology, Inc.	Microchip Technology, Inc.	X	X
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.	X	X
Brown, Matthew	Alphawave	Alphawave	X	X
Bruckman, Leon	Huawei Technologies Co., Ltd	Nvidia	X	X
Calvin, John	Keysight Technologies	Keysight Technologies	X	X
Chen, Chan	Self Employed	Independent/AOI	X	X
Chini, Ahmad	Broadcom Corporation	Broadcom Corporation	X	X
Choudhury, Golam	OFS	OFS	X	X
Cole, Christopher R	Finisar Corporation	Coherent Corp.	X	X
Cordaro, Jay		Analog Devices Inc.	X	X
Cox, Ian		Broadcom Corporation	X	X
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Affiliate of Huawei	X	X
de Koos, Andras	Microchip Technology Inc	Microchip Technology Inc	X	X
Dudek, Michael	Marvell	Marvell	X	X
El-Chayeb, Ahmad	Keysight Technologies Inc	Keysight Technologies Inc	X	X
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.	X	X
Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.	X	X
Graber, Steffen	Pepperl+Fuchs SE	Pepperl+Fuchs SE	X	X
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X
Healey, Adam	Broadcom Inc.	Broadcom Inc.	X	X
Heck, Howard	IEEE member / Self Employed	TE Connectivity	X	X
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor	X	X
Ho, Matthew		TE Connectivity	X	X
Huber, Thomas	Nokia	Nokia	X	X
HYAKUTAKE, YASUHIRO	Orbray Co., Ltd.	Orbray Co., Ltd.	X	X
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd	X	X
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD	X	X
Jones, Chad	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Jones, Peter	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Kagami, Manabu	Nagoya Institute of Technology	Nagoya Institute of Technology (NITech)	X	X
Kikuta, Tomohiro	Orbray Co., Ltd.	Orbray Co., Ltd.	X	X
Klingensmith, William	U.S. Federal Government	U.S. Federal Government	X	X
Kochuparambil, Elizabeth	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X

Name	Employer	Affiliation	IMAT	Zoom
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation	X	X
Kondo, Taiji	Dexerials Corporation	Dexerials Corporation	X	X
Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Kotani, Yasuhiro	DENSO	DENSO	X	X
Lambert, Angela	Corning Incorporated	Corning Incorporated	X	X
Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise	X	X
Lewis, Jon	Dell Technologies	Dell Technologies	X	X
Li, Mike-Peng	Intel	Intel	X	X
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.	X	X
Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Lou, Wei		Broadcom Corporation	X	X
Lusted, Kent	Synopsys, Inc.	Synopsys, Inc.	X	X
Maguire, Valerie	Copperopolis	Copperopolis, affiliated with CME Consulting and Cisco	X	X
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components	X	X
McClellan, Brett	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.	X	X
Muhigana, Ernest		Lumentum	X	X
Muller, Shimon	Enfabrica Corp.	Enfabrica	X	X
MURAKAMI, YUKI	FUJITSU	FUJITSU	X	X
Nakano, Hiroki	CAHI Corporation	CAHI Corporation; Kyoto University	X	
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)	X	X
Ninomiya, Tiger	Accelink USA Corporation	Accelink USA Corporation	X	X
Oishi, Eiichiro		Yazaki Corporation	X	X
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.	X	X
Palkert, Thomas	Macom, Samtec	Samtec-Macom	X	X
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.	X	X
Parkholm, Ulf	Telefon AB LM Ericsson	Ericsson AB	X	X
Potterf, Jason	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Rabinovich, Rick	Keysight Technologies	Keysight Technologies	X	X
Royer, Tyler	SENKO Advanced Components	Senko Advanced Components	X	X
Sakai, Toshiaki	Socionext Inc.	socionext	X	X
Schreiner, Stephan	Rosenberger Hochfrequenztechnik GmbH & Co. KG	Rosenberger	X	X
Sedarat, Hossein	Ethernovia	Ethernovia	X	X
Sekel, Steve	Wilder Technologies	Wilder Technologies	X	X
Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd	X	X
Simms, William	NVIDIA Corporation	NVIDIA Corporation	X	X

Name	Employer	Affiliation	IMAT	Zoom
Slavick, Jeff	Broadcom Inc	Broadcom Inc	X	X
Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES	X	X
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X
Stewart, Heath	Analog Devices Inc.	Analog Devices Inc.	X	X
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED	X	X
TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X
Tanc, Ahmet		NXP Semiconductors; NXP Semiconductors	X	X
Thompson, Geoffrey	GraCaSI S.A.	INDEPENDENT	X	X
Turner, Max	Ethernovia	Ethernovia	X	X
Ulrichs, Ed	Intel	Intel	X	X
Voss, Robert	Panduit Corp.	Panduit Corp.	X	X
Watanabe, Yuji	AGC Inc.	AGC	X	X
Wienckowski, Natalie	IVN Solutions LLC	IVN Solutions LLC; Ethernovia	X	X
Wingrove, Michael	Ciena Corporation	Ciena Corporation	X	X
Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X
Yin, Changgang		ZTE Corporation	X	
Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X
Zimmerman, George	CME Consulting, Inc.	CME Consulting/Analog Devices, APL Group, Cisco, Marvell, OnSemi, SenTekSe LLC, Sony	X	X
Zivny, Pavel	IEEE member / Self Employed	IEEE member / Self Employed	X	

Appendix B: Attendees on Zoom but not on IMAT

Name (directly from Zoom)	Affiliation
Kumi Omori [NEC]	NEC
Tingting Zhang [Huawei]	Huawei
Michael He [Innolight]	Innolight
Jodi Haasz (IEEE SA)	IEEE SA
Itamar Levin [Altera]	Altera
Anup (Siemens EDA)	Siemens EDA
Yin Changgang(ZTE)	ZTE
Jason Sisk [UNH-IOL] (Jason Sisk)	UNH-IOL
Paul Fuller [Marvell] (Paul Fuller)	Marvell
saied Benyamin (Ethernovia)	Ethernovia
Mehmet Tazebay [Broadcom]	Broadcom
Limin Geng_HUAWEI	Huawei
Haojie Wang [CMCC]	CMCC
Silon Mark [Wuerth Elektronik]	Wuerth Elektronik
Brian Murray - Analog Devices	Analog Devices