

IEEE 802.3 NEA Ad hoc Meeting – IEEE 802.3 “Ethernet for AI” Assessment
19 Aug 2025 Electronic Meeting

Unapproved Meeting Minutes, prepared by John D’Ambrosia, Mark Nowell, and Kent Lusted
Session called to order at 9:31 am EDT (all times EDT), 19 Aug 2025

Meeting called to order by John D’Ambrosia, Chair - IEEE 802.3 NEA “Ethernet for AI” Assessment

Chair gave the meeting introduction.

Chair reminded everyone to sign into IMAT, which would be used for tracking attendance

Presentation #1

Agenda and General Information

Presenter

John D’Ambrosia

URL

https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/fan_e4ai_01_250819.pdf

Agenda – chair asked if there were any comments on the agenda. There were none. Chair asked if there were any objections to the agenda, there were none, and the agenda was considered approved by unanimous consent.

- Minutes – 24 June 2025 -
https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0624/minutes_e4ai_250624_unapproved.pdf

Chair asked if there were any modifications of the minutes needed. No one responded.

Chair asked if there were any objections to the approval of the minutes. There were none, and the minutes were approved by unanimous consent.

Chair noted that invitation to meeting had included reminder for all meeting participants should to review the following IEEE SA policies prior to participation in the meeting teleconference:

- IEEE SA PREPAR policy
- IEEE SA Copyright Policy
- IEEE SA Participation Policy

Chair asked if anyone needed these policies reviewed. No one responded.

Chair proceeded to note the following -

- Chair reviewed IEEE SA Pre-PAR Patent Policy. See Slide #14.
- Chair noted from Slide #16 and noted by participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including but not limited to the IEEE SA Copyright Policy.
- Chair reviewed Slide #18 - Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct
- Chair noted from Slide #19 Participants in the IEEE SA “individual process” shall act independently of others, including employers. By participating in standards activities using the “individual process”, you are deemed to accept these requirements then you shall immediately cease any participation.

Chair reviewed IEEE 802.3 NEA “Ethernet for AI” Assessment Information on Slides #5.

Chair reviewed Different Interconnect Requirements identified for the assessment to date on Slide #6.

Chair reviewed Meeting Decorum, Ground Rules, and Important Bylaws, Rules, and References. See Slides #7-10.

Chair noted background on NEA can be found in Appendix.

Chair noted that future meetings for all NEA activities had not been planned yet, and future E4AI meetings would be announced. See Slide #11.

Chair reminded the group that he had assigned action items to Kent Lusted (review electrical activities to date), Mark Nowell (review optical activities to date), and himself (3.2 TbE information to date). He noted the three individuals had combined their findings in a single presentation, and that he was budgeting an hour of the meeting for its review and discussion.

Presentation #2 400 Gb/s + per lane optical parameter discussion

Presenters Xiaojie Fan

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/fan_e4ai_01_250819.pdf

Discussion

There were questions of clarification and discussion on the presentation.

Presentation #3 PAMXmY with LDPC Modulation Proposal for 448G

Presenters Peter Graumann

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/graumann_e4ai_01_250819.pdf

The chair provided an IMAT reminder.

Discussion

There were questions of clarification and discussion on the presentation.

Before the start of the presentation, the presenter noted that additional supporters had been added. The updated presentation (noted below) will be sent to the chair.

Presentation #4 Modifications and Enhancements to EIPS

Presenters Rohan Phadke

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/phadke_e4ai_01a_250819.pdf

The chair provided an IMAT reminder.

Discussion

There were questions of clarification and discussion on the presentation.

At 11:23 a.m., Mr. D'Ambrosia turned chairing of the meeting over to David Law.

Presentation #5 Aug 2025 Progress Update – Moving Towards Multiple CFIs

Presenters John D'Ambrosia, Kent Lusted, Mark Nowell

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/dambrosia_e4ai_01_250819.pdf

Discussion

There were questions of clarification and discussions on the presentation.

At 12:29 p.m. Mr. Law returned chairing the meeting to Mr. D'Ambrosia

The chair reminded everyone that he will be reviewing 802.3 schedules and figure out time for the next E4AI meeting. Any individuals wishing to present in the future are encouraged to contact Mr. D'Ambrosia so he can factor into planning the next meeting.

Also, the chair noted any individuals wishing to set up a separate NEA topic are encouraged to contact him or Mr Lewis.

Meeting adjourned at 12:31 pm.

IMAT Attendance

Last Name	First Name	Affiliation	Employer
Akinwale	Oluwafemi	Intel Corporation	Intel Corporation
Beauregard	Francois	belden	Belden Canada ULC
Bernier	Eric	Huawei Technologies Canada; Huawei Technologies Co., Ltd	Huawei Technologies Canada Co., Ltd.
Bruckman	Leon	NVIDIA	NVIDIA
Calvin	John	Keysight Technologies	Keysight Technologies
Chang	Yongmao	Source Photonics	Inphi Corporation
Chen	Yuanjie	Marvell Semiconductor, Inc.	
Choudhury	Golam	Lightera	Lightera
Cicalini	Alberto	Qualcomm Incorporated	Qualcomm Incorporated
Cox	Ian	Broadcom Corporation	
D'Ambrosia	John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei
Dawe	Piers J G	Nvidia	NVIDIA
Denton	Scott	Cisco Systems, Inc.	
Dsilva	Hansel	Amphenol Corporation	
Dudek	Michael	Marvell	Marvell
El-Chayeb	Ahmad	Keysight Technologies Inc	Keysight Technologies Inc
Ferretti	Vincent	Corning Incorporated	Corning Incorporated
Fortier	Tanner	Teledyne Technologies Incorporated	
Ghiasi	Ali	Ghiasi Quantum LLC, MARVELL	Ghiasi Quantum LLC
Graumann	Peter	Microchip Technology, Inc.	
HE	MICHAEL	TeraHop Pte. Ltd.	
He	Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Heck	Howard	Intel Corporation	TE Connectivity
Huang	Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Huber	Thomas	Nokia	Nokia
Hutchins	Jeff	Ranovus	Ranovus
Isono	Hideki	Furukawa FITEL Optical Components	Furukawa FITEL Optical Components Limited
Issenhuth	Tom	Huawei Technologies Co., Ltd	Issenhuth Consulting, LLC
Johnson	John	Broadcom	Broadcom Corporation
Kareti	Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kaygusuz	Ahmet	Adhoc Teknoloji	Adhoc Teknoloji
Klempa	Michael	Alphawave Semi	Alphawave Semi
Kugel	Valery	Juniper Networks, Inc.	
Lambert	Angela	Corning Incorporated	Corning Incorporated
Landry	Gary	Texas Instruments	Texas Instruments Inc.
Law	David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
LI	ERGE	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Li	Jieyu	China Mobile Communications Group	China Mobile Communications Group
Li	Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lim	Jane	Cisco Systems, Inc.	Cisco Systems, Inc.
Little	Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
Liu	Cathy	Broadcom	Broadcom Corporation
Luo	Yuanqiu	Futurewei Technologies	Futurewei Technologies
Lusted	Kent	Synopsys, Inc.	Synopsys, Inc.

Maki	Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Maniloff	Eric	Ciena Corporation	Ciena Corporation
Marshall	John	Advanced Micro Devices (AMD)	
Mascitto	Marco	Nokia	Infinera Canada Inc.
Mazzini	Marco	Cisco Systems, Inc.	Cisco Systems, Inc.
Mellitz	Richard	Samtec, Inc.	Samtec, Inc.
mi	guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Milicevic	Mario	Cisco Systems, Inc.	MaxLinear
Mitcheltree	Tom	US Conec, Ltd.	US Conec, Ltd.
Muhigana	Ernest	Lumentum	MACOM Technology Solutions Holdings, Inc.
Muller	Shimon	Enfabrica	Enfabrica Corp.
MURAKAMI	YUKI	1Finity	FUJITSU
Murty	Ramana	Broadcom Inc.	Broadcom Inc.
Naderi Shahi	Sina	Marvell	
Nering	Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Noujeim	Leesa	Google	Google
Nowell	Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Nowroozi	Bijan	Open Compute Project Foundation	Lightmatter
Opsasnick	Eugene	Broadcom Inc.	Broadcom Inc.
Palkert	Thomas	Samtec, Inc., Macom	
Parsons	Earl	CommScope, Inc.	CommScope, Inc.
Phadke	Rohan	Arista Networks	Arista Networks
Ran	Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Ren	Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Rodes	Roberto	Coherent	II-VI
Sakai	Toshiaki	Socionext	Socionext Inc.
Simms	William	NVIDIA Corporation	NVIDIA Corporation
Sivakolundu	Ramesh	Cisco Systems, Inc.	Cisco Systems, Inc.
Sommers	Scott	Molex Incorporated	Molex LLC
Son	Yung Sung	Optomind Inc	Optomind Inc
Tracy	Nathan	TE Connectivity	TE Connectivity
WANG	Xuebo	Huawei Technologies Co., Ltd	
Watanabe	Yojiro	Mitsubishi Electric Corporation	Mitsubishi Electric US, Inc.
Weaver	James	Arista Networks	Arista Networks
Wingrove	Michael	Ciena Corporation	Ciena Corporation
Wu	Mau-Lin	MediaTek Inc.	MediaTek Inc.
Xu	Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Yin	Shuang	Google	
Zhuang	Shu	Anritsu Company	
Zou	Congshi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd