

IEEE 802.3 NEA Ad hoc Meeting – IEEE 802.3 “Ethernet for AI” Assessment
23 Oct 2025 Electronic Meeting

Unapproved Meeting Minutes, prepared by John D’Ambrosia
Session called to order at 10:00 am EDT (all times EDT), 23 Oct 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_1023/agenda_e4ai_a_251023.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 – 19 Aug 2025
https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/minutes_e4ai_250819_unapproved.pdf

Chair noted he had received feedback from Eugene Opsasnick that the statement about Slide #20 did not reflect the actual statement on the slide. The chair reviewed and noted that there was a cut/paste error. The statement should read as follows:

- 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

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

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

Chair presented Slide #4 and noted that invitation to meeting had included a 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 #13.
- Chair noted from Slide #15 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 #17 - Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct
- Chair noted from Slide #18 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; if you are unable to satisfy 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 Meeting Decorum, Ground Rules, and Important Bylaws, Rules, and References. See Slides #6-9.

Chair noted background on NEA can be found in Appendix. Any individual with questions about the group should contact him or Jon Lewis, IEEE 802.3 NEA Chair.

Chair noted that future meetings for all NEA activities had not been planned yet, and future E4AI meetings would be announced. See Slide #10.

Chair reminded group to sign into IMAT.

Before getting started with presentations, chair noted that given the number of presentations, there would be limited time for Q&A following each presentation.

Presentation #2 Market Update on AI Networks

Presenters Lisa Huff

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/huff_e4ai_01a_251023.pdf

Discussion

There were questions of clarification and discussion on the presentation.

It was noted that on Page 18, the forecast for 3.2T was for scale-out, not scale-up.

During discussion of Slide 14, it was observed that the title should be modified to “Power Capacity Requirements.” The presentation will be updated (update noted above). Slide #6 will also be graphically updated to improve clarity of data.

Presentation #3 Coming Into Focus -- A 400 Gbps/lane Signaling Ethernet Project

Presenters Kent Lusted

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/lusted_e4ai_01a_251023.pdf

The chair noted that Mr. Lusted indicated he would be using E4AI Assessment for generating a CFI, and this would be presented to the WG in the opening report of the Nov Plenary. The chair also noted that the timeline presented on Slide #6 should be modified as the diamond marked “TF Start” should be changed to “TF Request.” Mr. Lusted agreed and will provide an update (update noted above).

Discussion

There were questions of clarification and discussion on the presentation.

The chair provided an IMAT reminder.

Presentation #4 Refined Test Points for 400 Gb/s CPC AI Use Cases

Presenters Rich Mellitz

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/mellitz_e4ai_01a_251023.pdf

Discussion

There were questions of clarification and discussion on the presentation.

Slide #5 needs to be updated - “2 db” changed to “2”. The author will provide an update (update noted above).

Presentation #5 A Preliminary Study of Modulation and FEC for 400 Gb/s per Lane NPC Channels

Presenters Xiang He

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/he_e4ai_01_251023.pdf

Discussion

There were questions of clarification and discussions on the presentation.

Presentation #6 Feasibility study of 1.6T FR4 PAM4 transceivers

Presenters Maxim Kuschnerov

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/kuschnerov_e4ai_01_251023.pdf

Discussion

There were questions of clarification and discussions on the presentation.

Presentation #7 PAMXmY: Options for extending performance

Presenters Peter Graumann

URL https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/graumann_e4ai_01_251023.pdf

Chair did

Discussion

There were questions of clarification and discussions on the presentation.

The chair reminded everyone that per the earlier conversation during Mr. Lusted's presentation, he would be informing the WG at the Nov plenary that a request to begin work on the "400 Gbps/lane Signaling Ethernet Project". The chair also noted that organizing meetings for the CFI and continuing general consensus building within the E4AI Assessment needed to be planned accordingly.

Meeting adjourned at 12:57 pm.

IMAT Attendance

Last Name	First Name	Affiliation	Employer
Akinwale	Oluwafemi	Intel Corporation	Intel Corporation
Alloin	Laurent	Ciena Corporation	
Beauregard	Francois	belden	Belden Canada ULC
Bovington	Jock	Cisco Systems, Inc.	Cisco Systems, Inc.
Bruckman	Leon	NVIDIA	NVIDIA
Choudhury	Golam	Lightera	Lightera
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
Galan	Jose	MaxLinear, Inc.	MaxLinear, Inc.
Ghiasi	Ali	Ghiasi Quantum LLC, MARVELL	Ghiasi Quantum LLC
Graumann	Peter	Microchip Technology, Inc.	
He	Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Healey	Adam	Broadcom Inc.	Broadcom Inc.
Heck	Howard	Intel Corporation	TE Connectivity
Hon	Kam Yan	Cisco Systems, Inc.	
Huang	Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Huang	Xuejue	Intel Corporation	
Isono	Hideki	Furukawa FITEL Optical Components	Furukawa FITEL Optical Components Limited
Issenhuth	Tom	Huawei Technologies Co., Ltd	Issenhuth Consulting, LLC
Jackson	Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Johnson	John	Broadcom	Broadcom Corporation
Jones	Peter	Cisco Systems, Inc.	Cisco Systems, Inc.
Kareti	Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kaygusuz	Ahmet	Adhoc Teknoloji	Adhoc Teknoloji
Kocsis	Sam	Amphenol Corporation	Amphenol Corporation
Kugel	Valery	Juniper Networks, Inc.	
Kuschnerov	Maxim	Huawei Technologies Duesseldorf GmbH	Huawei Technologies Duesseldorf GmbH
Lambrecht	Frank	Xilinx, Inc.	Xilinx, Inc.
Landry	Gary	Texas Instruments	Texas Instruments Inc.
LI	ERGE	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Li	Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lusted	Kent	Synopsys, Inc.	Synopsys, Inc.
Maki	Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Marques	Flavio	Furukawa Electric	Lightera
Mellitz	Richard	Samtec, Inc.	Samtec, Inc.
mi	guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Mitcheltree	Tom	US Conec, Ltd.	US Conec, Ltd.
Moorwood	Charles	Keysight Technologies	Keysight Technologies
Muhigana	Ernest	Lumentum	MACOM Technology Solutions Holdings, Inc.
MURAKAMI	YUKI	1Finity	FUJITSU
Nering	Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl	Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl	Shawn	Xilinx	Advanced Micro Devices (AMD)
Nowell	Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Ofelt	David	Juniper Networks, Inc.	Juniper Networks, Inc.
Opsasnick	Eugene	Broadcom Inc.	Broadcom Inc.
Pak	Tim	Foxconn Electronics Inc.	
Palkert	Thomas	Samtec, Inc., Macom	
Panian	James	Qualcomm Incorporated	
Parsons	Earl	CommScope, Inc.	CommScope, Inc.
peng	semmy	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Poleg	Edo	Huawei Technologies Co., Ltd	
Rabinovich	Rick	Keysight Technologies	Keysight Technologies
Ramesh	Sridhar	Maxlinear Inc	MaxLinear
Ran	Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Ren	Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Rodes	Roberto	Coherent	II-VI
Royer	Tyler	Senko Advanced Components	SENKO Advanced Components
Sakai	Toshiaki	Socionext	Socionext Inc.
Savi	Olindo	Hubbell Incorporated	Hubbell Incorporated

Shanbhag	Megha	TE Connectivity	Tyco
Simms	William	NVIDIA Corporation	NVIDIA Corporation
Torres	Luisma	KD	Knowledge Development for POF SL
Tran	Viet	Keysight Technologies	Keysight Technologies
Wang	Haojie	China Mobile	China Mobile Communications Corporation (CMCC)
Wang	Xiaofeng	Qualcomm Incorporated	Qualcomm Incorporated
WANG	Xuebo	Huawei Technologies Co., Ltd	
Weaver	James	Arista Networks	Arista Networks
Welch	Brian	Cisco Systems, Inc.	Cisco Systems, Inc.
Wettlin	Tom	Huawei Technologies Duesseldorf GmbH	
xu	wenxiong	HG genuine opto	HG Genuine
Yu	Rang-Chen	Innolight Technology Corproation	Innolight Technology Corproation
Zhang	Wei	Broadcom Corporation	
Zou	Congshi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd