

31 August 2023 Ad hoc Electronic Teleconference Meeting

Approved Meeting Minutes, Prepared by Kent Lusted

Meeting called to order at ~6:30 am (all times Pacific) by Kent Lusted, who was chairing the meeting.

Chair noted that individuals should fill out IMAT information for attendance.

Chair reminded participants to declare their affiliation in the online meeting. Failure to do so would result in expulsion from the meeting.

Presentation #1	Agenda
Presenter	Kent Lusted
URL	https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0831/agenda_3dj_01a_adhoc_230831.pdf

Questions were asked and answered.

The chair asked if there were any modifications for the agenda (See slide #2) – there were none.

There were no objections to the approval of the agenda, and it was considered approved by unanimous consent.

Ad hoc chair noted that the minutes for the 17 August 2023 electrical ad hoc were posted to the website. (see: https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0817/minutes_3dj_elec_230817.pdf) He asked if there were corrections or modifications to the posted minutes. No one responded. He asked if there was objection to approving the posted minutes. No one responded. The minutes from 17 August 2023 were approved by unanimous consent.

The chair noted an email had been sent out to the reflector reminding individuals to review the following IEEE SA policies-

- IEEE SA Participation Policy
- IEEE SA Copyright Policy
- IEEE SA Patent Policy

Chair asked if anyone needed any of these policies reviewed in-depth. There were no requests.

Chair presented the third slide (See Slide #26) of the IEEE SA Patent Policy slides. Chair did call for Potentially Essential Patents, and no one came forward.

Chair presented the second slide (See Slide #31) of the IEEE SA Copyright Policy slides. Chair 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 presented the second slide (See Slide #35) of the IEEE SA Participation Policy slides. Chair noted – “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 reminded participants of the IEEE Code of Ethics and Code of Conduct. (see slide #34)

The chair reviewed meeting decorum. See Slide #5.

The chair reviewed voting. See Slide #9.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool. Kent Lusted noted that neither he nor the WG Recording Secretary Jon Lewis would update attendance records after the meeting ends for the day.

Chair reminded participants to declare their affiliation in the online meeting. Failure to do so would result in expulsion from the meeting.

Chair noted that electrical link training was a hot topic in industry for 200-256G/lane rates and that several IEEE participants expressed interest in the transmitter training discussions occurring in INCITS FC. He also noted that the contribution is an update from Anil on the topic as a way to inform the IEEE 802.3 participants of the work ongoing in FC.

Presentation #2	For Reference: Transmitter Training Proposal for 256GFC
Presenter	Anil Mehta
URL	https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0831/mehta_3dj_elec_01a_230831.pdf

Questions were asked and answered.

Chair reminded participants of decorum and the IEEE Code of Ethics during the Q&A of presentation #2.

Presentation #3	212Gb/s Per Lane PAM4 Chip-to-Module Conventional Channels Room vs. Hi Temp
Presenter	Jim Weaver
URL	https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0831/weaver_3dj_elec_01_230831.pdf

The channel zip file contribution was posted to the Tools and Channel page (see: <https://www.ieee802.org/3/df/public/tools/index.html>)

Questions were asked and answered.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool. Kent Lusted noted that neither he nor the WG Recording Secretary Jon Lewis would update attendance records after the meeting ends for the day.

Break at 8:01 a.m. Resumed at 8:04 a.m.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool. Kent Lusted noted that neither he nor the WG Recording Secretary Jon Lewis would update attendance records after the meeting ends for the day.

Chair reminded participants to declare their affiliation in the online meeting. Failure to do so would result in expulsion from the meeting.

Presentation #4	802.3dj - CR Considerations for Insertion Loss Budget Baseline
Presenter	Chris Diminico
URL	https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0831/diminico_3dj_elec_01_230831.pdf

Questions were asked and answered.

Presentation #5	RX FFE Implementation Algorithm for COM 4.1
Presenter	Rich Mellitz
URL	https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0831/mellitz_3dj_elec_01_230831.pdf

Questions were asked and answered.

Task Force Chair John D'Ambrosia noted that presentation requests for the September interim meeting were due 31 August 2023. He reminded participants that contributions were due 5 September 2023. Also that presentation requests for the 3rd electronic interim meeting on 26-28 September were due 14 September.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool.

Meeting adjourned at ~9:08 a.m. Pacific.

Attendees (per IMAT)

Name	Employer	Affiliation
Akinwale, Oluwafemi		Intel Corporation
Beauregard, Francois	Belden Canada ULC	Belden
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Bois, Karl	NVIDIA Corporation	NVIDIA Corporation
Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Calvin, John	Keysight Technologies	Keysight Technologies
Champion, Bruce	TE Connectivity	TE Connectivity
Chappell, Neveia	Keysight Technologies	Keysight Technologies
Chen, Chan	Self Employed	Independent/AOI
Choe, Denz		BeCe Pte Ltd
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
Del Vecchio, Peter		Broadcom Corporation
Diminico, Christopher	M C Communications, LLC	Panduit Corp.
Dudek, Michael	Marvell	Marvell

Name	Employer	Affiliation
Erven, Chad	Semtech Ltd	Semtech Ltd
FILIPPOU, DIMITRIS		Dimitris Filippou; I2QS
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Healey, Adam	Broadcom Inc.	Broadcom Inc.
Heck, Howard	Intel	Intel
Hegde, Rajmohan	Broadcom Corporation	Broadcom Ltd.
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
Hutchins, Jeff	Ranovus	Ranovus
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Inho	MaxLinear	MaxLinear
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Krishnasamy, Kumaran	Broadcom Corporation	Broadcom Corporation
Kugel, Valery		Juniper Networks, Inc.
Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Le Cheminant, Greg	Keysight Technologies	Keysight Technologies

Name	Employer	Affiliation
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lusted, Kent	Intel	Intel
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
Mohajeri, Hessam	Ensphere Solutions	HM Consulting
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Muller, Shimon	Enfabrica Corp.	Enfabrica
MURAKAMI, YUKI	FUJITSU LIMITED	Fujitsu Limited
Murty, Ramana	Broadcom Inc.	Broadcom Corporation
Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Noujeim, Leesa	Google	Google
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.

Name	Employer	Affiliation
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Piehler, David	Dell Technologies	Dell
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Sakai, Toshiaki	Socionext Inc.	socionext
Shanbhag, Megha	Tyco	TE Connectivity
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
Tracy, Nathan	TE Connectivity	TE Connectivity
Weaver, James	Arista Networks	Arista Networks
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Yin, Shuang		Google