

## 21 September 2022 Ad hoc Electronic Teleconference Meeting

Approved Meeting Minutes, Prepared by Kent Lusted

Meeting called to order at ~7:02 am (all times Pacific) by Kent Lusted, who was chairing the meeting.

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

### **Presentation #1                      Agenda and General Information**

Presenter:                      Kent Lusted

URL

[https://www.ieee802.org/3/df/public/adhoc/electrical/22\\_0621/agenda\\_3df\\_adhoc\\_220921.pdf](https://www.ieee802.org/3/df/public/adhoc/electrical/22_0621/agenda_3df_adhoc_220921.pdf)

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

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

Minutes –

- [https://www.ieee802.org/3/df/public/adhoc/electrical/22\\_0621/minutes\\_3df\\_adh\\_220621\\_unapproved.pdf](https://www.ieee802.org/3/df/public/adhoc/electrical/22_0621/minutes_3df_adh_220621_unapproved.pdf)

The chair asked if there were any corrections to the minutes. There were none, and they were considered 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 #23) 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 #28) 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 #32) 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.”

The chair reviewed meeting decorum. See Slide #3.

The chair reviewed voting. No motions, other than approval of agenda and minutes, will be heard. Anyone who feels qualified can vote in a straw poll.

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

Chair noted that the contributions from Femi Akinwale and Rick Rabinovich have channel files associated, which can be found on the Tools and Channel Data page (<https://www.ieee802.org/3/df/public/tools/index.html> )

<b>Presentation #2</b>	<b>IEEE802.3df Channel Models for 200G C2M</b>
Presenter	Femi Akinwale
URL	<a href="https://www.ieee802.org/3/df/public/adhoc/electrical/22_0921/akinwale_3df_elec_01_220921.pdf">https://www.ieee802.org/3/df/public/adhoc/electrical/22_0921/akinwale_3df_elec_01_220921.pdf</a>

Questions were asked and answered.

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

Chair noted that the contributions from Femi Akinwale and Rick Rabinovich have channel files associated, which can be found on the Tools and Channel Data page (<https://www.ieee802.org/3/df/public/tools/index.html> )

<b>Presentation #3</b>	<b>212 Gb/s PAM4 per Lane C2M Channels - A Via Length Performance Study</b>
Presenter	Rick Rabinovich
URL	<a href="https://www.ieee802.org/3/df/public/adhoc/electrical/22_0921/rabinovich_3df_elec_01b_220921.pdf">https://www.ieee802.org/3/df/public/adhoc/electrical/22_0921/rabinovich_3df_elec_01b_220921.pdf</a>

There was a request to add 130 mil via case in the future. Questions were asked and answered.

Chair noted that the last presentation may run past the announced meeting end time. Chair asked if there was objection to extending the meeting approximately 10 minutes past the hour. No one responded.

Chair noted that there was an updated version '01a' of the Ran presentation with editorial changes to filenames. The updated version was posted to the ad hoc website. Author noted an updated version '01b' with a backup slide that was inadvertently removed from the 01a version. There was no objection to showing the version 01b.

<b>Presentation #4</b>	<b>COM analysis of contributed C2M channels – towards a 200 Gb/s per lane AUI proposal</b>
Presenter	Adee Ran
URL	<a href="https://www.ieee802.org/3/df/public/adhoc/electrical/22_0921/ran_3df_elec_01b_220921.pdf">https://www.ieee802.org/3/df/public/adhoc/electrical/22_0921/ran_3df_elec_01b_220921.pdf</a>

Questions were asked and answered.

Chair reviewed future meetings and reminded participants of the IEEE P802.3df Oct session that begins on 27 September 2022.

Chair reviewed future meetings.

Meeting adjourned at ~9:11 am Pacific.

**Attendees (per IMAT)**

Name	Employer	Affiliation
Akbaba, Enis	Analog Devices Inc.	Analog Devices Inc.
Akinwale, Oluwafemi		Intel Corporation
Aouini, Sadok		Ciena Corporation
Ben-Artsi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Calvin, John	Keysight Technologies	Keysight Technologies
Choe, Denz		BeCe Pte Ltd
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
Didde, Stephen	Keysight Technologies	Keysight Technologies
Dudek, Michael	Marvell	Marvell
Dumais, Patrick		Huawei Technologies Co., Ltd
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Gore, Brandon	Samtec, Inc.	Samtec, Inc.
Gustlin, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.

He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Healey, Adam	Broadcom Inc.	Broadcom Inc.
Heck, Howard	Intel	Intel
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
Huang, Kechao	Huawei Technologies Co., Ltd.	Huawei Technologies Co., Ltd.
Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Klempa, Michael	Alphawave IP	Alphawave IP
Kochuparambil, Elizabeth	Cisco Systems, Inc.	Cisco Systems, Inc.
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Lederman, Guy		NVIDIA
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
Liu, Cathy	Broadcom Corporation	Broadcom Corporation
Liu, Karen	Nubis Communications	Nubis Communications
Lu, Yuchun	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Lusted, Kent	Intel	Intel
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.

Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Muller, Shimon	Enfabrica Corp.	Enfabrica Corp.
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Omori, Kumi	NEC Corporation	NEC Corporation
Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Pike, Jacob		Ciena Corporation
Quan, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ramesh, Sridhar	MaxLinear	MAXLINEAR INC
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Sakai, Toshiaki	Socionext Inc.	socionext
Shanbhag, Megha	Tyco	TE Connectivity
Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
Simms, William	NVIDIA Corporation	NVIDIA Corporation
Slavick, Jeff	Broadcom Inc	Broadcom Inc
Sommers, Scott	Molex LLC	Molex Incorporated

Summers, Robert		Broadcom Corporation
Tran, Viet	Keysight Technologies	Keysight Technologies
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Wang, Ruoxu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Wang, Xinyuan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Weaver, James	Arista Networks	Arista Networks
Welch, Brian	Cisco Systems, Inc.	Luxtera
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Yin, Shuang		Google
Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd