

# IEEE P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet Task Force

09 Jun 2022 Electronic Meeting

Unapproved Meeting Minutes, prepared by John D'Ambrosia and Kent Lusted

Session called to order at 10:00 am ET (all times ET), 09 Jun 2022

Meeting called to order by John D'Ambrosia, IEEE P802.3df Task Force Chair

Chair noted that attendance would be taken by IMAT.

Presentation #1	Agenda and General Information
Presenters	John D'Ambrosia
URL	<a href="https://www.ieee802.org/3/df/public/22_0609/agenda_3df_a_220609.pdf">https://www.ieee802.org/3/df/public/22_0609/agenda_3df_a_220609.pdf</a>

Chair reviewed the agenda (Slide #2) and noted presentation order on Slide #3. Chair asked if there were any objections to the agenda (Slide #2). The chair asked if there were any other objections, and there were none. The chair asked if there were any objections to the approval of the agenda, and there were none. The agenda was considered approved by unanimous consent.

Chair reviewed the Task Force Project Information / Organization. See Slides #4. Chair noted that

Chair reviewed meeting decorum. See Slide #5.

Chair ruled Task Force voting, voting rights, and attendance. See Slides #8-9.

Slide #10 - Chair noted that the information regarding the IEEE SA Policies had been sent out, and requested that individuals review the following IEEE SA policies prior to the interim meeting –

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

Chair asked if anyone needed to review the policies at that time – there were no requests to do so.

Chair presented the third slide (See Slide #30) 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 #35) 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 #39) 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 noted that as of 09 Jun, there was one liaison from the OIF for the Task Force to consider (see: [https://www.ieee802.org/3/minutes/may22/incoming/OIF\\_liaison\\_IEEE\\_800ZR\\_Update\\_19May22\\_Redacted.pdf](https://www.ieee802.org/3/minutes/may22/incoming/OIF_liaison_IEEE_800ZR_Update_19May22_Redacted.pdf)) , and noted the plan decided for the response from the May 2022 session. See Slide #11.

Prior to the start of the presentation, Chris Doerr indicated that supporters had been added. He would provide the chair with the updated presentation (noted below) after the meeting.

<b>Presentation #2</b>	<b>Proposal for 800G-LR4 Optical PMD Based on DP-PAM4</b>
Presenter	Chris Doerr
URL	<a href="https://www.ieee802.org/3/df/public/22_0609/doerr_3df_01a_220609.pdf">https://www.ieee802.org/3/df/public/22_0609/doerr_3df_01a_220609.pdf</a>

There was a question about whether the proposal included related patents. Chair reminded participants of the IEEE SA Patent Policy and the ways to inform IEEE of potentially essential patent claims.

General questions of clarification.

<b>Presentation #3</b>	<b>Consideration on 800 Gb/s coherent solutions for 10km</b>
Presenter	Haojie Wang
URL	<a href="https://www.ieee802.org/3/df/public/22_0609/wang_3df_01a_220609.pdf">https://www.ieee802.org/3/df/public/22_0609/wang_3df_01a_220609.pdf</a>

Chair reminded participants of the rules for discussing relative costs.

General questions of clarification.

<b>Presentation #4</b>	<b>On the Technical feasibility of 800G LR4</b>
Presenter	Youxi Lin
URL	<a href="https://www.ieee802.org/3/df/public/22_0609/lin_3df_01_220609.pdf">https://www.ieee802.org/3/df/public/22_0609/lin_3df_01_220609.pdf</a>

General questions and discussion.

Break at 12:02 p.m. Resumed at 12:07 p.m.

Prior to the start of the presentation, Huijan Zhang indicated that supporters had been added. He would provide the chair with the updated presentation (noted below) after the meeting.

<b>Presentation #5</b>	<b>Power budget analysis of coherent 800G PDM-32QAM for LR application</b>
Presenter	Huijan Zhang
URL	<a href="https://www.ieee802.org/3/df/public/22_0609/zhang_3df_01a_220609.pdf">https://www.ieee802.org/3/df/public/22_0609/zhang_3df_01a_220609.pdf</a>

General questions and discussion.

Chair asked Mark Nowell, Optics Ad Hoc Chair, to comment on the day's presentations. Mark provided an update and noted that the interaction with FEC was important.

Floor was opened for general discussion of the current state of the various baselines proposed for the optical solutions. Several participants had comments.

Chair presented a summary of ad hoc meetings. See Slides #13-14.

Chair reviewed future meetings. See Slide #12.

Chair reminded participants to record attendance via the IEEE Meeting and Attendance Tool.

Kent Lusted reminded participants that the request for presentations for the 13 June IEEE P802.3df electrical ad hoc meeting was due on 8 June AoE.

Chair reminded participants of the Task Force call for presentations for the July 2022 Plenary meeting.

Meeting adjourned for the day at 12:56 pm

## Attendees Per IMAT

Name	Employer	Affiliation
Akbaba, Enis	Analog Devices Inc.	Analog Devices Inc.
Bernier, Eric		Huawei Technologies Canada; Huawei Technologies Co., Ltd
Bliss, William	Broadcom Corporation	Broadcom Corporation
Bovington, Jock		Cisco Systems, Inc.
Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Calvin, John	Keysight Technologies	Keysight Technologies
Castro, Jose	Panduit	Panduit Corp.
Chang, Yongmao	Inphi Corporation	Source Photonics
Chen, Chan	Applied Optoelectronics, Inc.	Applied Optoelectronics, Inc.
cheng, weiqiang		China Mobile Communications Corporation (CMCC)
Choudhury, Golam	OFS	OFS
D'Ambrosia, John	Futurewei Technologies	Futurewei Technologies, U.S. Subsidiary of Huawei
Dawe, Piers J G	NVIDIA	Nvidia
Deandrea, John	Finisar Corporation	Finisar Corporation
Dube, Kathryn	UNH-IOL	UNH-IOL
Dudek, Michael	Marvell	Marvell
Dumais, Patrick		Huawei Technologies Co., Ltd
Ewen, John	Marvell	Marvell
Ferretti, Vincent	Corning Incorporated	Corning Incorporated
Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Gore, Brandon	Samtec, Inc.	Samtec, Inc.
Harstead, Ed	Nokia	Nokia
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Healey, Adam	Broadcom Inc.	Broadcom Inc.
Heck, Howard	Intel Corporation	Intel Corporation
Huang, Kechao	Huawei Technologies Co., Ltd.	Huawei Technologies Co., Ltd.
Hutchins, Jeff	Ranovus	Ranovus
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
Jackson, Kenneth	Sumitomo Electric Device Innovations, USA	Sumitomo Electric Industries, LTD
Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Johnson, John	Broadcom Corporation	Broadcom Corporation
Kao, Chienping	Intel Corporation	Cornelis Networks
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kinningham, Alan	I-PEX CONNECTORS	I-PEX (division of Dai-Ichi Seiko)
Klingensmith, William	U.S. Federal Government	DoD
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation

Lambert, Angela		Corning Incorporated
Lapierre, Dominic		EXFO Inc.
Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
Levin, Itamar		Intel Corporation
Lewis, David	Lumentum Inc.	Lumentum Inc.
Li, Mike-Peng	Intel Corporation	Intel Corporation
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lieder, Eyal		Marvell Semiconductor, Inc.
Lin, Youxi	Huawei Technologies Duesseldorf GmbH	Huawei Technologies Co., Ltd
Liu, Hai-Feng	HG Genuine	HG Genuine
Liu, Karen	Nubis Communications	Nubis Communications
LIU, XIANG	Huawei R&D USA	Huawei Technologies Co., Ltd
Lu, Yuchun	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Lusted, Kent	Intel Corporation	Intel Corporation
Mak, Gary	Marvell Corporation	Marvell Semiconductor, Inc.
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Maniloff, Eric	Ciena Corporation	Ciena Corporation
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Mu, Jianwei		Hisense
Muller, Shimon	Enfabrica Corp.	Enfabrica Corp.
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
Omori, Kumi	NEC Corporation	NEC Corporation
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Rahn, Jeffrey	Facebook	Facebook
Ramesh, Sridhar	MaxLinear	MAXLINEAR INC
Ran, Adele	Cisco Systems, Inc.	Cisco Systems, Inc.
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Rodes, Roberto	II-VI	II-VI
Sakai, Toshiaki	Socionext Inc.	socionext
Shanbhag, Megha	Tyco	TE Connectivity
She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Slavick, Jeff	Broadcom Inc	Broadcom Inc
Sluyski, Mike		Cisco Systems, Inc.
Son, Yung Sung	Optomind Inc	Optomind Inc
Srivastava, Atul	NEL-America	NTT Electronics
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
SU, CHANGZHENG		Huawei Technologies Co., Ltd

Sun, Yi		OFS
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
Terada, Masaru	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Theodoras, James	HG Genuine	HG Genuine
Thompson, lance	II-VI	II-VI
Tracy, Nathan	TE Connectivity	TE Connectivity
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
Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
yan, zengchao		Huawei Technologies Co., Ltd
Yin, Shuang		Google
Young, James	CommScope, Inc.	CommScope
Zhou, Xiang		Google
Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Zivny, Pavel	Tektronix, Inc.	Tektronix, Inc.