

## IEEE P802.3dj Task Force – Joint Logic and Optics Ad hoc meeting

27 April 2023 Ad hoc Electronic Teleconference Meeting

Unapproved Meeting Minutes, Prepared by Mark Gustlin and Nowell

Meeting called to order at 10:00 am (all times ET) by Mark Nowell, who was chairing the meeting.

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

### Presentation #1 Agenda and General Information

Presenter: Mark Nowell

URL: [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/agenda\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/agenda_3dj_optx_01_230427.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.

The chair asked if there were any modifications to the previous P802.3dj optics ad hoc meeting minutes from April 13th, 2023 - there were none. There were no objections to the approval of the agenda, and it was 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.

The chair reviewed meeting decorum. See Slide #3. Chair reminded participants to follow the decorum rules. Chair reminded participants of compliance with the IEEE Code of Ethics required by all participants.

Presentation #2 oFEC-based 800GBASE-LR1/ER1 proposal with Synchronous Mapping

Presenter Gary Nicholl

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/nicholl\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/nicholl_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #3 Towards an 800G-LR4 IMDD Specification

Presenter Roberto Rodes

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/rodes\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/rodes_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #4 Delay, A History of Defining Maximum Latency (Optical Module Delay)

Presenter Jeffery Maki

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/maki\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/maki_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #5 Considerations on channel insertion loss for 10 km and 40 km 800G applications

Presenter Peter Stassar

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/stassar\\_3dj\\_optx\\_01a\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/stassar_3dj_optx_01a_230427.pdf)

The material was reviewed and discussed.

Presentation #6 SMF Dispersion Penalty Specification Proposal

Presenter Chris Cole

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/cole\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/cole_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #7 Probability of CD penalty higher than that predicted by TDECQ measurement at 1305 and 1319nm

Presenter Xiang Liu

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/liu\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/liu_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #8 Considerations on Reference Receiver for 200G/lane Optical PMD

Presenter Guangcan Mi

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/mi\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/mi_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #10 FEC\_I Sublayer Architecture Proposal for Type 2 PHYS

Presenter Xiang He

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/he\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/he_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #11 25G & 100G PCSL processing for Concatenated FEC

Presenter Lenin Patra

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/patra\\_3dj\\_optx\\_01\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/patra_3dj_optx_01_230427.pdf)

The material was reviewed and discussed.

Presentation #12 4x RS Codeword Interleaving Proposal for 200 GbE and 400 GbE

Presenter Xiang He

URL [https://www.ieee802.org/3/dj/public/adhoc/optics/0423\\_OPTX/he\\_3dj\\_optx\\_02\\_230427.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0423_OPTX/he_3dj_optx_02_230427.pdf)

We ran out of time to review this presentation. But it is posted for review. The presenter plans to submit the contribution for the May Interim meeting.

Future Meetings:

Future meetings will be announced after the May Interim meeting

Meeting adjourned at 1:00pm ET

## Attendees (per IMAT)

Name	Employer	Affiliation
Beauregard, Francois	Belden Canada ULC	Belden
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Calvin, John	Keysight Technologies	Keysight Technologies
Cassan, Dave	Alphawave	Alphawave
Chang, Yongmao	Inphi Corporation	Source Photonics
Chappell, Neveia	Keysight Technologies	Keysight Technologies
Choudhury, Golam	OFS	OFS
Cole, Christopher R	Finisar Corporation	Finisar Corporation
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei
Dawe, Piers J G	NVIDIA	Nvidia
Deandrea, John	Finisar Corporation	Finisar Corporation
de Koos, Andras	Microchip Technology Inc	Microchip Technology, Inc.
Del Vecchio, Peter		Broadcom Corporation
Dudek, Michael	Marvell	Marvell
Dumais, Patrick		Huawei Technologies Co., Ltd
Erven, Chad	Semtech Ltd	Semtech Ltd
Ferretti, Vincent	Corning Incorporated	Corning Incorporated
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Gu, Tao	Centec Networks (Suzhou) Co., Ltd.	Centec
Gui, Tao		Huawei Technologies Co., Ltd
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
Huang, Howard		Synopsys, Inc.
Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Huber, Thomas	Nokia	Nokia
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Jiang, Chenhui		Sicoya GmbH
Johnson, John	Broadcom Corporation	Broadcom Corporation
Kabra, Lokesh	Synopsys, Inc.	Synopsys, Inc.
Kim, Inho	MaxLinear	MaxLinear
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Klempa, Michael	Alphawave Semi	Alphawave IP
Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Kuschnerov, Maxim	Huawei Technologies Duesseldorf GmbH	Huawei Technologies Duesseldorf GmbH
Lambert, Angela	Corning Incorporated	Corning Incorporated
Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lin, Youxi	Huawei Technologies Duesseldorf GmbH	Huawei Technologies Co., Ltd
Liu, Cathy	Broadcom Corporation	Broadcom Corporation
Liu, Karen	Nubis Communications	Nubis Communications
LIU, XIANG		Huawei Technologies Co., Ltd
Lusted, Kent	Intel	Intel
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.
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.

Muller, Shimon	Enfabrica Corp.	Enfabrica
MURAKAMI, YUKI		Fujitsu Limited
Murty, Ramana	Broadcom Inc.	Broadcom Corporation
Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
Nering, Raymond	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.
Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
Parsons, Earl	CommScope, Inc.	CommScope, Inc.
Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
Patra, lenin	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Piehler, David	Dell Technologies	Dell
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Rechtman, Zvi	NVIDIA	NVIDIA
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Riani, Jamal		Marvell Semiconductor, Inc.
Rodes, Roberto	II-VI	II-VI
Sakai, Toshiaki	Socionext Inc.	socionext
Sheffi, Nir		Banias Labs
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Simms, William	NVIDIA Corporation	NVIDIA Corporation
Son, Yung Sung	Optomind Inc	Optomind Inc
Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
Sprague, Edward	Infinera Corporation	Infinera Corporation
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Summers, Robert		Broadcom Corporation
Sun, Junqing	Credo Semiconductor	Credo Semiconductor

Terada, Masaru	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
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
Welch, Brian	Cisco Systems, Inc.	Luxtera
Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wong, Henry		Alphawave Semi
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Yin, Shuang		Google