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

January 2022 Electronic Session

Approved Meeting Minutes, prepared by Kent Lusted, John D'Ambrosia

Session called to order at 10:03 am ET (all times ET), 11 Jan 2022

Meeting called to order by David Law, IEEE 802.3 WG Chair.

David Law appointed Kent Lusted to be Recording Secretary

Mr. Law noted that Direct Vote Live information had been sent via email to 802.3 WG Voters.

Mr. D'Ambrosia was moved to the Zoom lobby, while Mr. Law took the following confirmation motion.

Motion #1	Move to confirm John D'Ambrosia as the IEEE P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Task Force Chair
M:	Jim Weaver
S:	Robert Lingle Jr.
802.3 Voters (y/n/a)	Passed by unanimous consent

Mr. D'Ambrosia returned to the call and were congratulated by Mr. Law on being confirmed by the Task Force.

Mr. Nowell was moved to the Zoom lobby, while Mr. Law took the following confirmation motion.

Motion #2	Move to confirm Mark Nowell as the IEEE P802.3df 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Task Force Vice-Chair
M:	Robert Lingle Jr.
S:	Ali Ghiasi
802.3 Voters (y/n/a)	Passed by unanimous consent

Mr. Nowell returned to the call and were congratulated by Mr. Law on being confirmed by the Task Force.

John D'Ambrosia took over chairing the meeting at 10:11 am.

D'Ambrosia noted IMAT information for the meeting and asked everyone to sign in.

Presentation #1 Agenda and General Information

Presenters John D'Ambrosia

URL https://www.ieee802.org/3/df/public/22 01/agenda 3df d 220111.pdf

Chair asked if there were any objections to the agenda, there were none, and the agenda (Slide #2) was considered approved.

Minutes - 16 Nov 2021

https://www.ieee802.org/3/B400G/public/21 1116/minutes b400G a 211116 unapproved.pdf

Chair asked if there were any other corrections. There were none. Chair asked if there were any objections to approving the minutes. There were none, and the minutes were considered approved.

Chair reviewed the Task Force Project Information / Organization. See Slides #6 & 7. Chair noted the 4 task force reflectors, and indicated individuals needed to join each separately. Chair also noted that Task Force information, such as meeting announcements would be sent to <a href="stds-802-3-b400g@listserv@ieee.org">stds-802-3-b400g@listserv@ieee.org</a>.

Chair Reviewed Task Force Comment Phase. See Slide #8.

Chair reviewed Ground Rules. See Slide #9. Chair modified slide to note proper voting on straw polls and motions. Updated presentation noted above.

Chair noted that the information regarding the procedures 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 #28) 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 #33) 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 #37) 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 reviewed the Role of the Chair. See Slide #10. Chair noted this also applied to the Vice-Chair. Chair ruled Task Force Voting. See Slide #11.

D'Ambrosia reviewed liaisons for the Task Force to consider-

https://www.ieee802.org/3/minutes/nov21/incoming/SG15-LS331 Redacted.pdf

Chair noted that a proposed response had been uploaded to the webpage. Individuals were asked to review the proposed response and get back to the Chair with any feedback prior to the 18 Jan meeting, when it would be considered.

D'Ambrosia asked Nowell to assume chairing the call, so he could co-present the next presentation. Nowell started chairing the call approximately 10:37 am.

Presentation #2 The IEEE P802.3df Project – An Overview

Presenters John D'Ambrosia

URL https://www.ieee802.org/3/df/public/22 01/dambrosia 3df 01 220111.pdf

General questions and discussion.

D'Ambrosia resumed chairing the call at approximately 11:03 am.

Presentation #3 The Road to a Completed Standard

Presenters Matt Brown

URL https://www.ieee802.org/3/df/public/22 01/brown 3df 01a 220111.pdf

General questions and discussion.

It was noted that there are instances in the presentation that the term "Sponsor Ballot" is used, but this should be changed to "Standards Association Ballot" or "SA Ballot." Mr. Brown will provide an update to the presentation making these corrections. Update noted above.

Presentation #4 The IEEE P802.3df Standard – Document Introduction

Presenters Matt Brown

URL https://www.ieee802.org/3/df/public/22 01/brown 3df 02a 220111.pdf

General questions and discussion.

Meeting broke at 11:42am

Meeting reconvened at 11:47am.

Presentation #5 Nomenclature: The Joy of PMD Names

Presenters Kent Lusted

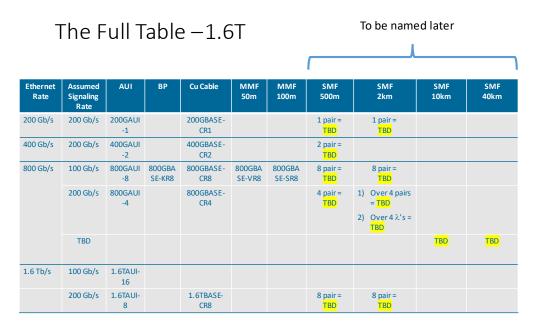
URL <a href="https://www.ieee802.org/3/df/public/22">https://www.ieee802.org/3/df/public/22</a> 01/lusted 3df 01 220111.pdf

General questions of clarification were answered.

Straw Poll #1	For the next Ethernet rate, I prefer nomenclature in the style of:  Option A: 1600G (e.g., 1600GBASE-CR8, 1600GAUI-16 C2x and 1600GAUI-8 C2x)  Option B: 1.6T (e.g., 1.6TBASE-CR8, 1.6TAUI-16 C2x and 1.6TAUI-8 C2x)  Option C: 1T6  No Opinion
All	Option A - 11 Option B - 87 Option C - 8 No Opinion - 2

Straw Poll #2	• I support using the nomenclature in the AUI, BP, Cu cable, MMF 50m and MMF 100m columns of lusted_3df_01_220111, slide 25
All	Yes - 100 No - 1 Abstain - 8

Reference: lusted\_3df\_01\_220111



Chair reminded everyone about deadline for requesting presentation time for the February 2022 session.

Session recessed for the day @12:36pm.

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

January 2022 Electronic Session

Session reconvened at 10:02 am ET (all times ET), 18 Jan 2022

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

Chair showed the IMAT information.

Chair noted that the information regarding the procedures 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 #28) 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 #33) 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 #37) 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 everyone that presentation requests for the February 2022 session were due this Friday, AoE

Presentation #6 Architecture Overview

Presenters Mark Gustlin

URL <a href="https://www.ieee802.org/3/df/public/22">https://www.ieee802.org/3/df/public/22</a> 01/gustlin 3df 01 220118.pdf

General questions and discussion.

Presentation #7 Electrical PMDs and AUIs Overview

Presenters Kent Lusted

URL <a href="https://www.ieee802.org/3/df/public/22">https://www.ieee802.org/3/df/public/22</a> 01/lusted 3df 01 220111.pdf

General questions and discussion.

Chair noted implementing channel data repository on the P802.3df webpage.

Break at 11:30am ET.

Meeting reconvened at 11:35 am ET.

Presentation #8 Optical PMDs Overview

Presenters Mark Nowell

URL https://www.ieee802.org/3/df/public/22 01/lusted 3df 01 220111.pdf

General questions and discussion.

Presentation #9 Proposed Response to ITU-T SG15 Liaison

Presenters John D'Ambrosia

URL https://www.ieee802.org/3/df/public/22 01/dambrosia 3df 02a 22 0111 Redacted.pdf

D'Ambrosia displayed the proposed liaison response and noted the file was being renamed to "IEEE\_802d3\_to\_ITU\_3df\_0122\_draft.pdf" for TF editing. No edits to the document were made.

Motion #3	Move that the IEEE P802.3df Task Force approve:  • IEEE_802d3_to_ITU_3df_0122_draft.pdf  with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ITU-T SG15.	
Moved by	Frank Effenberger	
Second by	Kent Lusted	
Results 802.3 (y/n/a)	Motion Passes by Unanimous Consent	

D'Ambrosia displayed results of previous straw polls related to nomenclature.

Motion #4	Move to adopt the nomenclature in the AUI, BP, Cu cable, MMF 50m and MMF 100m columns of lusted_3df_01_220111.pdf, slide 25
Moved by	Kent Lusted
Second by	Adee Ran
Results 802.3 (y/n/a)	Motion Passes by Unanimous Consent

Chair reviewed future meetings and re-iterated date for presentation requests for the February session.

Session adjourned @ 12:48pm ET.

## Attendees (per IMAT)

Participant	Affiliation	11-Jan	18-Jan
Aekins, Rob	Legrand		Х
Akbaba, Enis	Maxim Integrated Products	Х	Х
Ben-Artsi, Liav	Marvell Semiconductor, Inc.		Х
Bernier, Eric	Huawei Technologies Canada; Huawei Technologies Co., Ltd	Х	Х
Bois, Karl	NVIDIA Corporation	Х	Х
Brown, Matthew	Huawei Technologies Canada	Х	
Bruckman, Leon	Huawei Technologies Co., Ltd	Х	Х
Calvin, John	Keysight Technologies	Х	Х
Cassan, Dave	Alphawave	Х	Х
Chacon Simon, Geoffrey	Synopsys, Inc.	Х	Х
Chang, Xin	Huawei Technologies Co., Ltd	Х	Х
Chang, Yongmao	Source Photonics		Х
Chen, Chan	Applied Optoelectronics, Inc.	Х	Х
Chen, Yan	Broadcom Corporation	Х	
cheng, weiqiang	China Mobile Communications Corporation (CMCC)	Х	х
Choudhury, Golam	OFS	Х	Х
Connaughton, Michael	Leviton Manufacturing Co.	Х	Х
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Х	Х
Dawe, Piers J G	Nvidia	Х	Х
Didde, Stephen	Keysight Technologies	Х	
Dube, Kathryn	UNH-IOL	Х	Х
Dudek, Michael	Marvell	Х	Х
Effenberger, Frank	Futurewei Technologies		Х
Estes, David	Spirent Communications		Х
Ewen, John	Marvell	Х	Х
Ferretti, Vincent	Corning Incorporated	Х	Х
FILIPPOU, DIMITRIS	Dimitris Filippou; I2QS	Х	Х
Gao, Xiangrong	Huawei Technologies Co., Ltd		Х
Geng, Limin	Huawei Technologies Co., Ltd	Х	Х
Ghiasi, Ali	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.	Х	Х
Goodwill, Dominic	Huawei Technologies Canada; Huawei Technologies Co., Ltd	Х	Х
Gore, Brandon	Samtec, Inc.	Х	Х
Gorshe, Steven Scott	Microchip Technology, Inc.	Х	Х
Gustlin, Mark	Cisco Systems, Inc.	Х	Х
Haasz, Jodi	IEEE Standards Association (IEEE-SA)	Х	Х
Han, Ruibo	China Mobile Communications Corporation (CMCC)	Х	
Haser, Alexandra	Molex Incorporated	Х	Х
He, Xiang	Huawei Technologies Co., Ltd	Х	Х
Healey, Adam	Broadcom Inc.	Х	Х
Heck, Howard	Intel Corporation	Х	
Hegde, Rajmohan	Broadcom Ltd.		х
Hidaka, Yasuo	Credo Semiconductor	Х	
Huang, Kechao	Huawei Technologies Co., Ltd	Х	
HUANG, QINHUI	Huawei Technologies Co., Ltd	X	х

Huber, Thomas	Nokia	Х	Х
Hutchins, Jeff	Ranovus	X	Х
Ingham, Jonathan	Huawei Technologies Canada; Huawei Technologies Co., Ltd		Х
Isono, Hideki	Fujitsu Optical Components Limited	Х	Х
Issenhuth, Tom	Huawei Technologies Co., Ltd	Х	х
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Х	х
Johnson, John	Broadcom Corporation	Х	Х
Kabra, Lokesh	Synopsys, Inc.	Х	
Kamino, John	OFS		х
Kao, Chienping	Cornelis Networks	Х	х
Kareti, Upen	Cisco Systems, Inc.	Х	Х
Kawatsu, Yasuaki	APRESIA Systems		х
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Х	х
Kim, Yongbum	Tenstorrent		х
Kimber, Eric	Semtech Ltd	Х	Х
Kinningham, Alan	I-PEX (division of Dai-Ichi Seiko)	X	Х
Klempa, Michael	Amphenol Corporation	X	X
Klingensmith, William	DoD	X	X
Kochuparambil, Elizabeth	Cisco Systems, Inc.	X	X
Koehler, Daniel	Synopsys, Inc.	X	X
Kota, Kishore	Marvell Semiconductor, Inc.	X	X
Kuschnerov, Maxim	Huawei Technologies Duesseldorf GmbH	x	^
Lam, Cedric	Google		V
Lani, Ceuric	EXFO Inc.	X	X
· · · · · · · · · · · · · · · · · · ·			X
Lawson, Matthew	Cisco Systems, Inc.		X
Le Cheminant, Greg	Keysight Technologies		X
Levin, Itamar	Intel Corporation	X	Х
Lewis, David	Lumentum Inc.	X	
Li, Mike-Peng	Intel Corporation	Х	Х
Li, Pei-Rong	MediaTek Inc.	X	Х
Lim, Jane	Cisco Systems, Inc.	X	Х
Lin, Youxi	Huawei Technologies Co., Ltd	Х	Х
Lingle, Robert	OFS	Х	Х
Liu, Hai-Feng	HG Genuine	Х	Х
Liu, Karen	Nubis Communications	Х	Х
Lusted, Kent	Intel Corporation	Х	Х
Maguire, Valerie	The Siemon Company	Х	Х
Mak, Gary	inphi	Х	Х
Maki, Jeffery	Juniper Networks, Inc.	Х	Х
	Malicoat Networking Solutions; SENKO Advanced		
Malicoat, David	Components	X	Х
Maniloff, Eric	Ciena Corporation	X	Х
Marques, Flavio	FURUKAWA ELECTRIC	Х	
Marris, Arthur	Cadence Design Systems, Inc.	Х	Х
Mazzini, Marco	Cisco Systems, Inc.	Х	
Mellitz, Richard	Samtec, Inc.	Х	
mi, guangcan	Huawei Technologies Co., Ltd	Х	х
Moorwood, Charles	Keysight Technologies	Х	х

Mu, Jianwei	Hisense		X
Muller, Shimon	Enfabrica Corp.	Х	Х
Murty, Ramana	Broadcom Corporation	х	x
Nakamoto, Edward	Spirent Communications	X	x
Nering, Raymond	Cisco Systems, Inc.	Х	x
Nicholl, Gary	Cisco Systems, Inc.	Х	х
Nicholl, Shawn	Xilinx	Х	х
Nikolich, Paul	Self Employed	Х	
Noujeim, Leesa	Google	х	Х
Nowell, Mark	Cisco Systems, Inc.	х	х
Ofelt, David	Juniper Networks, Inc.	х	х
Omori, Kumi	NEC Corporation	х	х
Opsasnick, Eugene	Broadcom Inc.	х	Х
Palkert, Thomas	Samtec-Macom	х	Х
PARK, CHUL SOO	Juniper Networks, Inc.	Х	Х
Parsons, Earl	CommScope, Inc.	X	X
peng, semmy	Huawei Technologies Co., Ltd		X
Pepper, Gerald	Keysight Technologies	х	X
Piehler, David	Dell	X	X
Pittala, Fabio	Huawei Technologies Duesseldorf GmbH	X	^
Quan, Yu	Huawei Technologies Co., Ltd	^	х
Rabinovich, Rick	Keysight Technologies  Keysight Technologies		x
Radhamohan, Rajeshmohan	Cisco Systems, Inc.	V	
Rahn, Jeffrey	Facebook	X	X
•		X	X
Ran, Adee	Cisco Systems, Inc.	X	X
Rechtman, Zvi	NVIDIA	X	Х
Ren, Hao	Huawei Technologies Co., Ltd	X	Х
Rodes, Roberto	II-VI	X	Х
Sakai, Toshiaki	socionext	X	Х
Sarlet, Gert	II-VI Incorporated	X	Х
Savi, Olindo	Hubbell Incorporated	X	Х
Shahramian, Shayan	Alphawave	X	Х
Shrikhande, Kapil	Marvell Semiconductor, Inc.	X	Х
Shukla, Priyank	Synopsys, Inc.	X	Х
Simms, William	NVIDIA Corporation	X	Х
Slavick, Jeff	Broadcom Inc	X	Х
Sommers, Scott	Molex Incorporated	X	Х
Son, Yung Sung	Optomind Inc	Х	Х
Sorbara, Massimo	GLOBALFOUNDIRES	х	Х
Sprague, Edward	Infinera Corporation	Х	Х
Srivastava, Atul	NTT Electronics	Х	
Stassar, Peter	Huawei Technologies Co., Ltd	х	Х
Stone, Robert	Facebook	х	Х
SU, CHANGZHENG	Huawei Technologies Co., Ltd	Х	Х
Sun, Junqing	Credo Semiconductor	х	Х
Sun, Yi	OFS	х	
Tailor, Bharat	Semtech Canada Corporation	Х	Х
TAKAHARA, TOMOO	FUJITSU LIMITED	Х	х

Theodoras, James	HG Genuine	х	х
tomofuji, hiroaki	FUJITSU		Х
Tooyserkani, Pirooz	Cisco Systems, Inc.	х	Х
Tracy, Nathan	TE Connectivity	х	Х
Tran, Viet	Keysight Technologies	х	Х
Trowbridge, Stephen	Nokia		Х
Ulrichs, Ed	Intel Corporation	х	Х
Wang, Haojie	China Mobile Communications Corporation (CMCC)	х	Х
Wang, Ruoxu	Huawei Technologies Co., Ltd	х	Х
Wang, Xinyuan	Huawei Technologies Co., Ltd	х	
Weaver, James	Arista Networks	х	Х
Welch, Brian	Luxtera	х	Х
Whiteman, Cameron	Infinera Corporation	х	Х
Williams, Tom	Cisco Systems, Inc.		Х
Wu, Mau-Lin	MediaTek Inc.	х	Х
Xu, Yu	Huawei Technologies Co., Ltd	х	
Young, James	CommScope	х	
Zebian, Sara	Google	х	
Zhang, Bo	Marvell Technology, Inc	х	Х
Zhiwei, Yang	ZTE Corporation		Х
Zhuang, Yan	Huawei Technologies Co., Ltd	х	Х
Zivny, Pavel	Tektronix, Inc.	х	Х