IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet Task Force

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

23 May 2023
May 2023 session
IEEE P802.3df Task Force May 2023 Meeting Task Force Page - https://www.ieee802.org/3/df/public/23_0523/index.html

Meeting called to order at 9:00 am Eastern time (all times eastern)

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

Mark Nowell, Vice-Chair, reminded participants to declare their affiliation in the online meeting tool.

Chair noted that no registration nor meeting fee was required for participation in these meeting series.

Presentation #1	Agenda and General Information
Presenters	John D'Ambrosia
URL	https://www.ieee802.org/3/df/public/23_0523/agenda_3df_a_230523.pdf

Chair welcomed everyone to the meeting.

Chair noted that Task Force meeting attendance would be through the IEEE Meeting Attendance Tool (IMAT).

Chair reviewed the agenda (Slide #2). Chair noted that individuals should check the webpage for the latest version of each presentation. Chair noted that all of the presentation times were subject to change.

Chair asked if there were any objections to the agenda. There were none. The agenda was considered approved by unanimous consent.

Chair reviewed meeting decorum. (See Slide #3) Chair asked if there were any members of the press present. No one responded.

Chair reviewed attendance. (See Slide #4) Chair noted that Task Force meeting attendance would be through the IEEE Meeting Attendance (IMAT).

Chair reviewed the Task Force Project Information / Organization. (See Slide #5).

Chair reviewed ground rules. (See Slide #7)

Chair reviewed the current state of the Task Force. (See Slide #8.)

Chair reviewed voting in the task force. (See Slide #9) Chair noted that the straw polls would use the online Zoom tool. Motions would be taken with the Direct Vote Live tool if there was not unanimous consent.

Slide #10 - Chair noted that the information regarding the IEEE SA Policies had been sent out via the Task Force reflector , 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.

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 Conduct. (see slide #34)

Chair reminded participants of the early registration rate for the July 2023 plenary. He also noted that the July plenary requires all participants to register and pay the meeting fee to attend the meeting. He noted that the plenary would be a "mixed mode" meeting and support remote attendees with best effort.

Presentation #2:

Title	Chief Editors Report
Presenters	Matt Brown
URL	https://www.ieee802.org/3/df/public/23_05/brown_3df_01_2305.pdf

Questions of clarification were addressed.

Matt Brown reviewed the approach to comment resolution on slide 7 of the Chief Editor's report. (see: https://www.ieee802.org/3/df/public/23_05/brown_3df_01_2305.pdf) Chair asked if there was opposition to the approach. No one responded.

Presentation #3:

Title	Comment Resolution Agenda
Presenters	Matt Brown
URL	https://www.ieee802.org/3/df/public/23_0523/brown_3df_02_230523.pdf

Chief Editor noted that the comment order was subject to change.

Chief Editor noted that the comment agenda and comment resolution input contributions might be updated each day to reflect the progress made.

Comment resolution began with Matt Brown running comment resolution.

Presentation #4:

Title	**PMA+PMD Delay of an Optical Module**
Presenters	Jeff Maki
URL	https://www.ieee802.org/3/df/public/23_0523/maki_3df_01a_230523.pdf

Chair asked the author to update the contribution to version '01a' to clarify that the information came from individuals affiliated with the companies on slide 10.

Break at 10:44 a.m. Resumed at 10:50 a.m.

Chair reminded participants to sign into IMAT for Task Force attendance credit.

Presentation #5

Title	**Estimations of 800GE PCS and PMA Skew Limits**
Presenters	Mike Li

URL	https://www.ieee802.org/3/df/public/23_0523/li_3df_01_230523.pdf

Chief Editor asked if there was objection to reopen comment #81 for the purpose of adding "implement with editorial license". No one responded. Comment was opened, edited, and closed.

Chief Editor noted that he would progress to the optical topic and close comments until the optical presentations. The optical presentations would be shown on the next meeting day. Comment resolution would then transition to the logic topic for the rest of the day. He asked if there was objection to the plan. No one responded.

Comment Resolution Input from Editorial Team
See: https://www.ieee802.org/3/df/public/23_0523/brown_3df_03_230523.pdf
Editorial team noted that the document would be referenced throughout comment resolution and may be updated based on discussion. Changes were made and saved as '03a'.

Straw Poll #1:
Type: Directional
Topic: Optical connector
(see comment #95 in the comment reports)

Presentation #6:

Title	DR family interoperability, signal detect and average power limits
Presenters	Piers Dawe
URL	https://www.ieee802.org/3/df/public/23_0523/dawe_3df_01_230523.pdf

Chair reminded participants to sign into IMAT for Task Force attendance credit.

During comment resolution, the Chair noted that "CRG" is a term meaning "Comment Resolution Group" per the IEEE SA Balloting and Comment Resolution Process Guidelines. (see: https://standards.ieee.org/wp-content/uploads/import/governance/revcom/guidelines.pdf)

Comment Resolution Input from Editorial Team
See: https://www.ieee802.org/3/df/public/23_0523/brown_3df_03a_230523.pdf
Editorial team noted that the document would be referenced throughout comment resolution and may be updated based on discussion. Changes were made and saved as '03a'.

Presentation #7:

Title	Supporting presentation to comment #12 to D2.0 of P802.3df
Presenters	Peter Stassar

URL	https://www.ieee802.org/3/df/public/23_0523/stassar_3df_01_230523.pdf

Chief Editor noted that the comment resolution might start with Clause 45 topics on Wednesday.

Meeting recessed for the day at 1:02 p.m.

24 May 2023

Meeting reconvened at 9:01 a.m. eastern time zone.

Chair made opening comments and reviewed the plans for the day. (see: https://www.ieee802.org/3/df/public/23_0523/agenda_3df_a_230523.pdf)

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

Chair reminded participants to sign into IMAT for Task Force attendance credit. Kent Lusted noted that attendance would not be granted after the meeting.

Chair provided participants with the access information to the P802.3df Task Force website private area.

Comment resolution resumed.

Comment Resolution Input from Editorial Team

See: https://www.ieee802.org/3/df/public/23_0523/brown_3df_03b_230523.pdf

Editorial team noted that the document would be referenced throughout comment resolution and may be updated based on discussion. Changes were made and saved as '03b'.

Chair reminded participants to sign into IMAT for Task Force attendance credit.

Prior to the start of presentation #8, the author had an updated presentation with editorial changes in version '01a' and would provide it to the Chair for posting.

Presentation #8:

Title	**Details and possible resolutions for fault signaling comments**
Presenters	Adee Ran
URL	https://www.ieee802.org/3/df/public/23_0523/ran_3df_01a_230523.pdf

Questions were asked and answered.

Chair noted that participants should not make multiple question requests in the queue until their first question was asked.

Break at 10:48 a.m. Resumed at 10:53 a.m.

Straw Poll #2:

Type: Directional

Topic: Fault Signaling

(see comment #14 in the comment reports)

Note that Straw Poll #3 and #4 were taken at the same time.

Straw Poll #3:
Type: Directional
Topic: Fault Signaling
(see comment #13 in the comment reports)

Straw Poll #4:
Type: Directional
Topic: Fault Signaling
(see comment #13 in the comment reports)

Chair reminded participants to sign into IMAT for Task Force attendance credit.

Presentation #9:

Title	**Improved alignment marker table and description**
Presenters	Piers Dawe
URL	https://www.ieee802.org/3/df/public/23_0523/dawe_3df_02_230523.pdf

Straw Poll #5
Type: Directional
Topic: Table format
(see comment #104 in the comment reports)

Chair reminded participants to sign into IMAT for Task Force attendance credit.

Chair noted that the meeting was scheduled to recess at 1:00 p.m. eastern. He asked if there was objection to extending the Wednesday meeting to complete resolution of the existing comment (#107) and make announcements for Thursday. No one responded.

Chief Editor provided a summary of progress from the day.

Chair noted that the meeting on Thursday would end when comment resolution and closing business was complete. The Thursday meeting might run past the announced end time.

Meeting recessed for the day at 1:15 p.m.

25 May 2023

Meeting reconvened at 9:02 a.m.

Chair made opening comments and reviewed the plans for the day. (See https://www.ieee802.org/3/df/public/23_0523/agenda_3df_a_230523.pdf)

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for attendance credit. Kent Lusted noted that attendance would not be granted after the meeting.

Vice-Chair reminded remote participants to declare their affiliation in the online tool.

Chair noted that the meeting on Thursday would end when comment resolution and closing business was complete. The Thursday meeting might run past the announced end time. He noted that IMAT would close at 12:59:59 p.m. eastern regardless of whether the meeting continues past that time.

Chair provided participants with the access information to the P802.3df Task Force website private area.

Chair noted that the "Comment Database" used to capture the Comment Resolution Group's review of submitted comments was corrupted during the 24 May meeting, as was announced over the email reflector. (see: https://www.ieee802.org/3/B400G/email/msg00781.html)   He reviewed the issue and the steps that were taken to correct the issue. He reviewed the proposed process flow. He asked if there were any questions or concerns. No one objected.

Chair asked if there were any comments in bucket2 that participants would like to pull from the bucket. No one responded.

Motion #1:	Move to adopt the proposed responses for 802.3df D2.0 comment resolution 'bucket2' in https://www.ieee802.org/3/df/public/23_0523/8023df_D2p0_comments_bucket2_id.pdf
Technical (>= 75%)	
Moved by	Adee Ran
Second by	Jim Weaver
Results 802.3 (y/n/a)	passed by unanimous consent 9:10 a.m.

Chief Editor Matt Brown thanked Gary Nicholl, Kapil Shrikhande, Kent Lusted, and John D'Ambrosia for their help reconstructing the comment database.

Chair thanked the team for their effort to reconstruct the database.

Chair noted that he received an updated contribution from Adee Ran on the fault signaling topic representing offline consensus building. He asked if there was objection to hearing the contribution. No one responded.

Presentation #10:

Title	**Updated proposal for resolution of comments #13, #14**
Presenters	Adee Ran
URL	https://www.ieee802.org/3/df/public/23_0523/ran_3df_02_230523.pdf

During Q&A of the presentation, several editorial team members noted that numerous aspects of the proposal for comments #13 and #14 would need a considerable editorial license to implement in the draft. There was no objection from the author or participants.

Questions were asked and answered.

Comment resolution resumed.

Chief Editor asked the recording secretary Kent Lusted to reconfirm the straw poll numbers and counts within the reconstructed comment #13. Kent confirmed the counts matched the recorded minutes and the text matched. Chief Editor asked if there were modifications that were needed to reconstruct the comment prior to resolving it. A participant confirmed that the comment was accurately reconstructed.

Chief Editor asked the recording secretary Kent Lusted to reconfirm the straw poll numbers and counts within the reconstructed comment #14. Kent confirmed the counts matched the recorded minutes and the text matched. Chief Editor asked if there were modifications that were needed to reconstruct the comment prior to resolving it. A participant confirmed that the comment was properly reconstructed.

Chief Editor noted that comment #31 was pulled from bucket1 and was not listed on the comment agenda. It would be addressed on the floor after the fault signaling topic.

Chair noted that comment #83 was withdrawn as well as the associated presentation from Gary Nicholl. He also noted that comment #66 was withdrawn as well as the associated presentation from John D'Ambrosia.

Comment Resolution Input from Editorial Team
See: https://www.ieee802.org/3/df/public/23_0523/brown_3df_03c_230523.pdf
Editorial team noted that the document would be referenced throughout comment resolution and may be updated based on discussion. Changes were made and saved as '03c'.

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for attendance credit.

Break at 11:01 a.m. Resumed at 11:07 a.m.

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for attendance credit.

Straw Poll #6:
Type: Direction
Topic: PMD Definitions

(see comment #73 in the comment reports)

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for attendance credit.

Chair reviewed future meetings. (see slide #11 in the agenda). He was not aware of any planned 3df Task Force ad hoc meetings. If ad hoc meetings were needed, then it would be announced over the email reflector.

Chair noted that he would try to take motion #3 by unanimous consent and proceed to DVL if needed.

Motion #2:	Move that the IEEE P802.3df Task Force generate Draft 2.1 for the first Working Group Ballot Recirculation from D2.0 and the closed comments
Technical (>= 75%)	
Moved by	Matt Brown
Second by	Gary Nicholl
Results 802.3 (y/n/a)	passed by unanimous consent. 12:13 p.m.

Chair noted that the closed comments included the bucket1 comments that were closed on 17 May 2023 in motion #2 during the joint 3cw/3df/3dj May interim meeting and the bucket2 comments closed in motion #1 on 25 May.

Chair reminded participants of the early registration fee cut off for the July 2023 Plenary meeting.

David Law reminded participants that registration and a meeting fee for the July 2023 plenary was required for in-person and remote attendees.

Chair noted that the agenda was complete.

Meeting adjourned at 12:17 p.m.

Attendees

Name	Employer	Affiliation	23 May	24 May	25 May
BakroNagy, Istvan	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	
Ben-Artsi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X		
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.	X	X	X
Bovington, Jock	Cisco Systems, Inc.	Cisco Systems, Inc.			X
Brown, Matthew	Huawei Technologies Canada	Huawei Technologies Canada	X	X	X
Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X	
Calvin, John	Keysight Technologies	Keysight Technologies	X	X	X
Chappell, Neveia	Keysight Technologies	Keysight Technologies	X	X	X
Chen, Chan	Self Employed	Self Employed	X	X	X
Choudhury, Golam	OFS	OFS			X
Cole, Christopher R	Finisar Corporation	Finisar Corporation	X		
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei	X	X	X
Dawe, Piers J G	NVIDIA	Nvidia	X	X	X
de Koos, Andras	Microchip Technology Inc	Microchip Technology, Inc.		X	X
Deandrea, John	Finisar Corporation	Finisar Corporation	X	X	X
Del Vecchio, Peter		Broadcom Corporation	X	X	X
Diminico, Christopher	M C Communications, LLC	Panduit Corp.	X		
Dudek, Michael	Marvell	Marvell	X	X	X
Ferretti, Vincent	Corning Incorporated	Corning Incorporated	X	X	
FILIPPOU, DIMITRIS		Dimitris Filippou; I2QS	X	X	X
FUKUSHIMA, TAKAHITO	Dexerials Corporation	Dexerials	X	X	X

Name	Employer	Affiliation	23 May	24 May	25 May
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.	X	X	X
Gustlin, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	X
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X	X
Healey, Adam	Broadcom Inc.	Broadcom Inc.	X	X	X
Heck, Howard	Intel	Intel	X	X	X
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor	X	X	X
Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X	X
Huber, Thomas	Nokia	Nokia	X	X	X
Hutchins, Jeff	Ranovus	Ranovus	X	X	X
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X	X
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd	X	X	X
Kim, Inho	MaxLinear	MaxLinear	X		
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.	X	X	X
Kimbara, Tatsuki		Hakusan; Optical Interconnect Products	X		X
Kimber, Eric	Semtech Ltd	Semtech Ltd	X		X
Klingensmith, William	U.S. Federal Government	DoD	X		X
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation	X	X	
Lambert, Angela	Corning Incorporated	Corning Incorporated	X	X	X
Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise	X	X	X
Li, Mike-Peng	Intel	Intel	X	X	X
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.	X	X	X
Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X		X
Lim, Jane	Cisco Systems, Inc.	Cisco Systems, Inc.	X		X
Liu, Cathy	Broadcom Corporation	Broadcom Corporation	X	X	

Name	Employer	Affiliation	23 May	24 May	25 May
Lusted, Kent	Intel	Intel	X	X	X
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.		X	X
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components	X	X	X
Maniloff, Eric	Ciena Corporation	Ciena Corporation		X	
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.	X	X	X
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.	X	X	X
mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X	X
Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.		X	
Moorwood, Charles	Keysight Technologies	Keysight Technologies	X	X	X
Muller, Shimon	Enfabrica Corp.	Enfabrica	X	X	X
MURAKAMI, YUKI		Fujitsu Limited		X	
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	X
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.			X
Ninomiya, Takuya		Senko Advanced Components		X	X
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	X
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.	X	X	X
Omori, Kumi	NEC Corporation	NEC Corporation		X	
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.			X
Palkert, Thomas	Macom, Samtec	Samtec-Macom		X	
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.	X	X	X
Parsons, Earl	CommScope, Inc.	CommScope, Inc.	X		
peng, semmy		Huawei Technologies Co., Ltd	X	X	X
Piehler, David	Dell Technologies	Dell	X		
Rabinovich, Rick	Keysight Technologies	Keysight Technologies	X		

Name	Employer	Affiliation	23 May	24 May	25 May
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	X
Rechtman, Zvi	NVIDIA	NVIDIA	X	X	X
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X		X
Rodes, Roberto	II-VI	II-VI	X		X
Sakai, Toshiaki	Socionext Inc.	socionext	X	X	
Sambasivan, Sam	AT&T	AT&T	X	X	X
Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated	X	X	X
Sekel, Steve		Wilder Technologies	X	X	X
Shah, Anup	Siemens Corporation	Siemens EDA		X	
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.	X	X	X
Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X	
Simms, William	NVIDIA Corporation	NVIDIA Corporation	X	X	X
Slavick, Jeff	Broadcom Inc	Broadcom Inc	X	X	X
Sommers, Scott	Molex LLC	Molex Incorporated	X	X	X
Son, Yung Sung	Optomind Inc	Optomind Inc	X	X	X
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	X	X
Tooyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X	X
Tracy, Nathan	TE Connectivity	TE Connectivity	X		
Tran, Viet	Keysight Technologies	Keysight Technologies	X	X	
Ulrichs, Ed	Intel	Intel	X		X
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)	X	X	
Weaver, James	Arista Networks	Arista Networks		X	X
Welch, Brian	Cisco Systems, Inc.	Luxtera			X
Whiteman, Cameron	Infinera Corporation	Infinera Corporation			X

Name	Employer	Affiliation	23 May	24 May	25 May
Wingrove, Michael	Ciena Corporation	Ciena Corporation			X
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.	X	X	X
Yin, Shuang		Google	X	X	