

# Joint Meeting of the IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet Task Force and IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet Task Force

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

## 20 July 2023

July 2023 session

IEEE P802.3df Task Force July2023 Meeting Task Force Page - same as 3dj

IEEE P802.3dj Task Force July2023 Meeting Task Force Page - [https://www.ieee802.org/3/dj/public/23\\_0720/index.html](https://www.ieee802.org/3/dj/public/23_0720/index.html)

Meeting called to order at 9:01 am Eastern time (all times eastern)

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

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	<a href="https://www.ieee802.org/3/dj/public/23_0720/agenda_3dfdj_230720.pdf">https://www.ieee802.org/3/dj/public/23_0720/agenda_3dfdj_230720.pdf</a>

Chair welcomed everyone to the meeting.

Chair noted that the minutes from the July Plenary meeting were posted to the website for participant review. He thanked Kent Lusted for his efforts to prepare the unapproved minutes.

Chair asked that participants ask one clarifying question at a time during the presentation Q&A. He would be policing and enforcing it.

Chair reviewed the agenda (Slide #3). 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 #4) Chair asked if there were any members of the press present. No one responded.

Chair reviewed attendance. (See Slide #5) 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 #6-7).

Chair reviewed ground rules. (See Slide #9)

Chair reviewed the current state of the Task Force. (See Slide #10.)

Chair reviewed voting in the task force. (See Slide #11) 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 #12 - 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 #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 reminded participants of the IEEE Code of Ethics and Conduct. (see slide #38)

Chair reminded participants to declare their affiliation in the online meeting tool.

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

#### **Presentation #2:**

Title	<b>Error budgets for AUIs within a PHY</b>
Presenters	Adee Ran
URL	<a href="https://www.ieee802.org/3/dj/public/23_07/ran_3dj_01a_2307.pdf">https://www.ieee802.org/3/dj/public/23_07/ran_3dj_01a_2307.pdf</a>

#### **Straw Poll #1**

For the AUI BER division inside of a PHY, I would support an approach of:

- fixed allocation (TBD)
- depending on the number of AUIs (different than the past)
- NMI
- Abstain

Results (all): A: 16, B: 4, C: 36, D: 14

### Straw Poll #2

If a fixed allocation of AUIs was chosen inside of a PHY, I would prefer a BER error budget allocation of:

- A. 50% for C2M, 50% for C2C
- B. 100% for C2M, 0% for C2C (C2C only possible as part of an xGMII Extender)
- C. Other division
- D. Need more information
- E. Abstain

Results (all): A: 7, B: 7, C: 17, D: 24, E: 11

### Presentation #3:

Title	<b>Budgeting a Bump to Bump Loss for Interoperability</b>
Presenters	Liav Ben-Artzi
URL	<a href="https://www.ieee802.org/3/dj/public/23_07/benartsi_3dj_01_2307.pdf">https://www.ieee802.org/3/dj/public/23_07/benartsi_3dj_01_2307.pdf</a>

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

Break at 10:46 a.m. Resumed at 10:55 a.m.

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

Prior to presentation #4, the author noted there was an updated version '01a' with editorial updates and additional supporters.

### Presentation #4:

Title	<b>Reference Die/Device Model and Parameters for 802.3df COM Baseline</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_0720/lim_3dj_01a_2307.pdf">https://www.ieee802.org/3/dj/public/23_0720/lim_3dj_01a_2307.pdf</a>

Prior to presentation #5, the author noted there was an updated version '01a' with editorial updates and additional supporters.

**Presentation #5:**

Title	<b>Reference Package Model and Parameters Towards COM Baseline</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_0720/lim_3dj_02a_2307.pdf">https://www.ieee802.org/3/dj/public/23_0720/lim_3dj_02a_2307.pdf</a>

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. Chair noted that he reserved the right to take informative straw polls by 802.3 WG voting membership.

**Straw Poll #3**

I would support the direction of the 200G/L Die/Device Model changes to Annex 93A (COM ) proposed in lim\_3dj\_01a\_2307 slides 6 and 7

Results (all): Y: 30, N: 1, NMI: 9, A: 20

**Straw Poll #4**

I would support the COM Die/Device model parameter values in lim\_3dj\_01a\_2307 slide 8 for 200G/Lane KR, CR, AUI C2C and AUI C2M

Results (all): Y: 15, N: 2, NMI: 17, A: 24

**Straw Poll #5**

I would support the direction of the 200G/L package model to Annex 93A (COM) proposed in lim\_3dj\_02a\_2307 slide 8

Results (all): Y: 9, N: 17, NMI: 9, A: 21

Chair noted that motions would be taken with the Direct Vote Live tool if there was not unanimous consent. Chair asked if there would be opposition to attempt the vote by unanimous consent. No one responded.

<b>Motion #1:</b>	Move to adopt the 200G/L Die/Device Model changes to Annex 93A (COM ) proposed in lim_3dj_01a_2307 slides 6 and 7
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Mike Li
<b>Second by</b>	Jim Weaver
<b>Results 802.3 (y/n/a)</b>	passed by unanimous consent. 12:17 p.m.

<b>Motion #2:</b>	Move to adopt the COM Die/Device model parameter values in lim_3dj_01a_2307 slide 8 for 200G/Lane KR, CR, AUI C2C and AUI C2M
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Mike Li
<b>Second by</b>	Upen Reddy Kareti
<b>Results 802.3 (y/n/a)</b>	Y: 14, N: 11, A: 20 motion failed 12:27 p.m.

During Motion #2, Chair asked if there were 802.3 voters having trouble with the DVL tool. No one responded.

Roll call results for motion #2:

<b>Attendee</b>	<b>Vote</b>
Adee Ran	No
Ali Ghiasi	Yes
Angela Lambert	Abstain
Ayal Shoal	Yes
Cathy Liu	Abstain
Chan Chen	Abstain
Charles Moorwood	Abstain
Chul Soo Park	Abstain
David Malicoat	Abstain
David Ofelt	Abstain
Edward Sprague	Abstain
Golam Choudhury	Abstain
Howard Heck	Yes
James Weaver	Yes
Kathryn Dube	Abstain
Kenneth Jackson	Abstain
Kihong/Joshua Kim	No

<b>Attendee</b>	<b>Vote</b>
Leon Bruckman	Yes
Liav Ben-Artzi	No
Matthew Brown	No
Mau-Lin Wu	No
Megha Shanbhag	Yes
Michael Dudek	No
Michael Wingrove	No
Mike-Peng Li	Yes
Nathan Tracy	Yes
Olindo Savi	Abstain
Pei-Rong Li	No
Piers J G Dawe	Abstain
Raymond Nering	Abstain
Richard Mellitz	Yes
Rick Rabinovich	Abstain
Sam Kocsis	Yes
Shimon Muller	Abstain
Shuang Yin	Abstain
Taiji Kondo	Yes
Thomas Huber	No
Thomas Palkert	No
Toshiaki Sakai	Yes
Upen Kareti	Yes
Viet Tran	Abstain
William Klingensmith	Yes

Attendee	Vote
Yasuo Hidaka	No
Yuefeng Cai	Abstain
Zvi Rechtman	Abstain

### Straw Poll #6

I would support the direction of the 200G/L package model to Annex 93A (COM) proposed in [https://www.ieee802.org/3/dj/public/23\\_07/benartsi\\_3dj\\_02\\_2307.pdf](https://www.ieee802.org/3/dj/public/23_07/benartsi_3dj_02_2307.pdf) slide 5

Results (all): Y: 21, N: 2, NMI: 10, A: 18

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

<b>Motion #3:</b>	Move to adopt the 200G/L package model to Annex 93A (COM) proposed in <a href="https://www.ieee802.org/3/dj/public/23_07/benartsi_3dj_02_2307.pdf">https://www.ieee802.org/3/dj/public/23_07/benartsi_3dj_02_2307.pdf</a> slide 5
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Mike Dudek
<b>Second by</b>	Liav Ben-Artsi
<b>Results 802.3 (y/n/a)</b>	Y: 22, N: 5, A: 10 motion passed 12:49 p.m.

During Motion #3, Chair asked if there were 802.3 voters having trouble with the DVL tool. One person indicated and provided their vote verbally.

Roll call votes for motion #3:

Attendee	Vote
Adam Healey	Yes
Adee Ran	Yes
Ali Ghiasi	Yes
Angela Lambert	Abstain
Charles Moorwood	Yes
Chul Soo Park	Abstain
David Malicoat	Yes
David Ofelt	Abstain

<b>Attendee</b>	<b>Vote</b>
Edward Sprague	Abstain
Eugene Opsasnick	Abstain
Golam Choudhury	Yes
Howard Heck	Abstain
Jim Weaver	Yes
Kathryn Dube	Abstain
Kihong/Joshua Kim	Yes
Leon Bruckman	Yes
Liav Ben-Artzi	Yes
Matthew Brown	Yes
Mau-Lin Wu	Yes
Megha Shanbhag	No
Michael Dudek	Yes
Michael Wingrove	No
Mike-Peng Li	No
Nathan Tracy	No
Olindo Savi	Yes
Pei-Rong Li	Yes
Piers J G Dawe	Abstain
Richard Mellitz	Yes
Rick Rabinovich	Yes
Shuang Yin	Abstain
Taiji Kondo	Yes
Thomas Huber	Abstain
Thomas Palkert	Yes



<b>Attendee</b>	<b>Vote</b>
Toshiaki Sakai	Yes
Upen Kareti	Yes
William Klingensmith	Yes
Yasuo Hidaka	No

Chair reviewed the future meetings (see agenda slide #14). Participants should expect joint meetings of the P802.3cw, P802.3df, and P802.3dj Task Forces. Additional meetings for P802.3cw and P802.3df may be announced based on comment resolution needs.

Chair reviewed the future ad hoc meetings (see agenda slide #15).

Kent Lusted, Electrical track leader, provided a summary of the progress from the meeting and asked participants to reach out and build consensus.

P802.3dj Chief Editor, Matt Brown, asked participants to include the relevant editor in the development of baseline proposals.

Chair reminded participants to sign into IMAT for Task Force attendance credit. He noted that the recording secretary would not accept requests after the meeting ends.

Chair noted that the agenda was complete.

Meeting adjourned at 12:59 p.m.

## Attendees

Name	Employer	Affiliation
BakroNagy, Istvan	Cisco Systems, Inc.	Cisco Systems, Inc.
Ben-Artzi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Brown, Matthew	Alphawave	Alphawave
Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Calvin, John	Keysight Technologies	Keysight Technologies
Chang, Yongmao	Inphi Corporation	Source Photonics
Chappell, Neveia	Keysight Technologies	Keysight Technologies
Chen, Chan	Self Employed	Independent/AOI
Choe, Denz		BeCe Pte Ltd
Choudhury, Golam	OFS	OFS
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei
Dawe, Piers J G	NVIDIA	Nvidia
de Koos, Andras	Microchip Technology Inc	Microchip Technology, Inc.
Del Vecchio, Peter		Broadcom Corporation

Name	Employer	Affiliation
Dube, Kathryn	UNH-IOL	UNH-IOL
Dudek, Michael	Marvell	Marvell
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, 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
Huber, Thomas	Nokia	Nokia
Hutchins, Jeff	Ranovus	Ranovus
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Jiang, Chenhui	Sicoya	Sicoya
Kabra, Lokesh	Synopsys, Inc.	Synopsys, Inc.
Kao, Chienping	Intel	Cornelis Networks
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Keshavamurthy, Rakesh		TE
Kikuchi, Nobuhiko		Hitachi, Ltd.
Kim, Inho	MaxLinear	MaxLinear

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Klempa, Michael	Alphawave Semi	Alphawave Semi
Klingensmith, William	U.S. Federal Government	DoD
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Kugel, Valery		Juniper Networks, Inc.
Lambert, Angela	Corning Incorporated	Corning Incorporated
Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Liu, Cathy	Broadcom Corporation	Broadcom Corporation
Lusted, Kent	Intel	Intel
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.
Moorwood, Charles	Keysight Technologies	Keysight Technologies

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Muller, Shimon	Enfabrica Corp.	Enfabrica
MURAKAMI, YUKI	FUJITSU LIMITED	Fujitsu Limited
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Noujeim, Leesa	Google	Google
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
peng, semmy		Huawei Technologies Co., Ltd
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Rechtman, Zvi	NVIDIA	NVIDIA
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Rodes, Roberto	II-VI	II-VI
Sakai, Toshiaki	Socionext Inc.	socionext
Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated
Sekel, Steve		Wilder Technologies

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Shanbhag, Megha	Tyco	TE Connectivity
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
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
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
Tracy, Nathan	TE Connectivity	TE Connectivity
Tran, Viet	Keysight Technologies	Keysight Technologies
Weaver, James	Arista Networks	Arista Networks
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd