

Unapproved Minutes
**IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force
Interim Meeting**

Webex Meeting

May 13, 2021

Prepared by Mabud Choudhury

Group Name: IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force

Date/Location: Thursday, May 13, 2021. Webex meeting.

Chair: Robert Lingle, Jr (OFS)

Editors: Ramana Murty (Broadcom), Earl Parsons (CommScope)

Recording Secretary: Mabud Choudhury (OFS)

Meeting Participants: Attendance is listed in Appendix A (32 attendees – based on official IMAT attendance)

Call to order:

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force (TF) Interim WebEx meeting was convened at 12:02 PM Eastern Daylight Time (EDT/ UTC -4), Tuesday, May 13, 2021, by Robert Lingle, Jr., P802.3db TF Chair.

Webex Meeting Procedures:

He instructed attendees to either add their affiliations to their names in the Webex participants list, or else list their name with affiliation in the chat window – a meeting requirement. [These two instructions were repeated multiple times throughout the meeting via Chat].

Chair's Presentation:

Title: "Agenda and General Information"

Presenter: Robert Lingle, Jr. (OFS)

[agenda_3db_01_051321.pdf](#)

Mr. Lingle then proceeded with reviewing the **Agenda**, Slide 3 of [agenda_3db_01_051321.pdf](#) and asked if there were any modifications, additions or deletions? There were none.

.3db Motion #1:

Move to approve the Agenda for Interim TF Teleconference, Slide 3 of [agenda_3db_01_051321.pdf](#)

- M: Mike Dudek
- S: John Abbott
- (Procedural > 50%)
- Motion approved by unanimous consent

Agenda approved at 12:04 PM

Approved Agenda:

- Welcome
- Approve Agenda
- Attendance
- Approve Meeting Minutes for April 29th Ad Hoc TF meeting

- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents. IEEE Patent Policy reminder: <http://www.ieee802.org/3/patent.html>
 - IEEE Copyright reminder: <https://standards.ieee.org/ipr/index.html>
 - IEEE Participant reminder: <http://www.ieee802.org/devdocs.shtml>
 - IEEE Standards Process
- PAR & Objectives
- Liaison
- D1.0 Editors' Report – Earl Parsons (CommScope), Ramana Murty (Broadcom)
- Contributions:
 - “In support of Comment ID 31, regarding APC MPO-12 connectors in subclause 167.10.3.3” – Chongjin Xie
 - “Support for a comment proposing better emulation of fiber dispersion for multimode TDECQ” - Greg D. Le Cheminant, Marlin Viss
- Straw Polls & Motions – may occur throughout the meeting
- Future Meetings

Attendance: Chair asked attendees to use <http://imat.ieee.org/> to record attendance, provided Session Code, and reviewed the IMAT steps to log attendance for this TF meeting. Attendance record based on IMAT only. The request to record attendance via IMAT was repeated multiple times via Chat.

Approved Meeting Minutes: Mr. Lingle asked if there were any updates/corrections to the April 29, 2021, TF ad hoc unapproved meeting minutes that had been previously posted for review/feedback. There were none.

.3db Motion #2:

Move to approve meeting minutes for:

- April 29, 2021, IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber TF Ad Hoc meeting: [unapproved minutes 3db adhoc 01 042921.pdf](#)
- M: James Young
- S: John Abbott
- (Procedural > 50%)
- Motion passes by unanimous consent.

Task Force Decorum: Chair asked for attendees to stay on mute when not speaking. Chair asked if anyone from the **Press** was present – no one indicated that they were from the Press – 12:08 PM.

Mr. Lingle provided **Goal for the meeting:**

- Comment resolution against D1.0
- Review/approve liaison letter from IEEE 802.3 to T11.2 to share D1.0

Reflector and Web: Chair showed the links to the IEEE 802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force page, and the email reflector.

TF Private Area: Chair provided Username and Password for TF private area. All draft standards will be in private area.

Chair reviewed:

Ground Rules: slide 12 of [agenda_3db_01_051321.pdf](#)

IEEE Structure: slide 13 of [agenda_3db_01_051321.pdf](#)

Important Bylaws and Rules: slide 14 of [agenda_3db_01_051321.pdf](#)

Secretary had shared the IEEE SA Patent, Copyright and Participation Policies prior to the meeting and had asked participants to be familiar these policies. Mr. Lingle asked if any participants had questions, and that there were no questions.

IEEE SA Patent Policy: Mr. Lingle provided overview of slides 15-19 of [agenda_3db_01_051321.pdf](#).

Chair made “**Call for Potentially Essential Patents**” at 12:12 PM. No response from TF participants.

IEEE SA Copyright Policy: Mr. Lingle showed slides 20-22 of [agenda_3db_01_051321.pdf](#) entitled “IEEE SA Copyright Policy” overview

IEEE SA Participation Policy: Mr. Lingle showed the participation policy overview slides 23-25 of [agenda_3db_01_051321.pdf](#).

Mr. Lingle then reviewed the Overview of IEEE 802.3 Standards Process – completed Study Group Phase, and now in Task Force Comment Phase (slide 27 of [agenda_3db_01_051321.pdf](#)).

Chair showed links for Approved Project Documents: PAR, CSD and Objectives slide 31 of [agenda_3db_01_051321.pdf](#)). Mr. Lingle then showed the TF Objectives and Timeline.

Mr. Lingle then reviewed the 6 key TBDs to be resolved:

- For Transmit Characteristics
 - Center wavelength for 50m PMD
 - TDECQ for 50m PMD
 - Overshoot/undershoot for 50m & 100m PMDs
- For Receive Characteristics
 - Stressed Receiver sensitivity
- For Test Methodology
 - Number of taps for 50m PMD

Chair emphasized the need for contributions, consensus building & supported comments to resolve TBDs for D1.1 & D1.2!

Liaison:

TF reviewed and updated – made editorial corrections – liaison letter from 802.3 WG to INCITS T11.2 making P802.3db TF D1.0 draft available to T11.2: [IEEE_802d3_to_T11-2_0521_draft2.pdf](#)

.3db Motion #3:

- Move that the IEEE P802.3db Task Force approve [IEEE_802d3_to_T11-2_0521_draft2.pdf](#) with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to INCITS T11.2

- M: Mabud Choudhury
- S: Mike Dudek
- Y: N: A:
- Technical ($\geq 75\%$ of 802.3 voters)
- Motion passes by unanimous consent.

Editors' Report and Comment Agenda:

Title: " 802.3db Editors' Report and Comment Agenda"

Presenters: Editors Earl Parsons (CommScope) and Ramana Murty (Broadcom Inc.)

[editors_report_D1p0_3db_01_051321.pdf](#)

- Editorial team:
 - Earl Parsons, Co-editor, earl.parsons@commscope.com
 - Ramana Murty, Co-editor, ramana.murty@broadcom.com
- Status:
 - Draft 1.0 was posted to P802.3db private area April 21st
 - Included:
 - Changes discussed during comment resolution against D0.2 on Apr 15th
 - Editorial changes to Clauses 1, 30, 78, 91, 116 and 167 as well as Introduction and Front matter as described on slide 11 in https://www.ieee802.org/3/db/public/April_15_2021/editors_report_comments_D0p2_3db_01_041521.pdf
 - Clause 45
 - D1.0 was open for comments through Wednesday, May 5th
 - Comments were received from five individuals
 - 31 total comments
 - Comments and proposed responses were posted May 11th
 - Thank you to everyone who commented!
- Meeting goals for comments against D1.0:
 - Resolve 8 comments not in the "bucket"
 - Comment resolution agenda in later slide
 - Any presentations associated with comments will be reviewed during comment resolution
 - T and TRs will be treated with the same status; no signoff required
 - E and ERs will be treated with the same status; no signoff required
- 8 comments to be reviewed:

1) 25	Equalizer taps
2) 7	Fiber cable attenuation
3) 18	Table 167-2
4) 5	SR1 and VR1
5) 23	TECQ
6) 31	APC MPO diagram
7) 26	Hit ratio
8) 30	Equalizer bandwidth

Comment resolution against D1.0 started.

Contribution #1:

Title: "In support of Comment ID 31, regarding APC MPO-12 connectors in subclause 167.10.3.3"

Presenter: Chongjin Xie (Alibaba Cloud, Alibaba Group)

[xie_3db_01_051321.pdf](#)

- Presentation provides:
 - For 200GBASE-SR4 optical transceivers, APC optical connectors have better performance than PC connectors.
 - APC MPO-12 connectors are used for 200GBASE-SR4 in Alibaba networks and would be preferred for future 400GBASE-VR4/SR4 as well.
 - Recommendation that APC MPO-12 connectors, including a diagram, be included in the MDI subclause 167.10.3.3 [per comment ID 31].
- Technical discussion followed on: performance advantages of APC vs. PC, identifying APC vs. PC, MPO-12 and MPO-16 options, offset keying, color-coding, reviewing all MDI options before resolving this comment.
- Presenter welcomed feedback from the group and answered clarifying questions.

Two TF participants objected to proposed Accept for Comment ID 31, so resolution was deferred to May 27th TF Interim meeting due to lack of time. Editor Earl Parsons indicated that he would further the discussion and consensus building via the reflector prior to next meeting.

Contribution 2, "Support for a comment proposing better emulation of fiber dispersion for multimode TDECQ" - Greg D. Le Cheminant, Marlin Viss was moved to May 27th TF Interim meeting due to lack of time.

Comment resolution was paused until May 27th TF Interim meeting.

Future meetings:

- See: <http://iee802.org/3/calendar.html> and <http://iee802.org/3/interims/index.html>
- P802.3db TF Ad Hoc Teleconferences are currently scheduled:
 - Biweekly on Thursdays at 12 Noon to 2 pm Eastern US (EST/UTC -5):
<http://www.ieee802.org/3/db/public/adhoc/index.html>
 - Next Ad Hoc meeting: **Thursday, June 10, 2021, 12 Noon to 2 pm Eastern Daylight US (EDT/UTC -4)**
 - Ad Hoc meetings will be converted to TF interims when TF business requires
- P802.3db TF Interim Teleconferences:
 - On TF interim teleconferences, only 802.3 voters may vote on TF motions
 - Next Interim meeting: **Thursday, May 27, 2021, 12 Noon to 2 pm Eastern Daylight US (EDT/UTC -4)**
- Next 802.3 WG Interim meeting week (virtual):
 - **May 17-20 & 24-27, 2021**

.3db Motion #3:

- Move to Adjourn TF Telephonic Interim Meeting
- M: Mike Dudek
- S: James Young
- (Procedural > 50%)
- Motion passes by unanimous consent.

The Task Force Interim meeting was adjourned at 2:04 PM EDT/ UTC -4, Thursday, May 13, 2021.

Next Meeting:

Scheduled P802.3db TF Interim Webex meeting for Thursday, May 27, 2021, at 12:00 Noon – 2:00 PM EDT/UTC -4.

Appendix A: Attendance List IEEE P802.3db Task Force WebEx Plenary Meeting

32 individuals attended on Thursday, 13 May 2021, 12:02 PM – 2:04 PM EDT/UTC -4

Name	Employer	Affiliation
1 Abbott, John	Corning Incorporated	Corning Incorporated
2 Akbaba, Enis	Maxim Integrated Products	Maxim Integrated Products
3 Bolig, Matthew	Marvell	Marvell
4 Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
5 Castro, Jose	Panduit	Panduit Corp.
6 Chang, Yongmao	Inphi Corporation	Source Photonics
7 Chen, Chan	Applied Optoelectronics, Inc.	Applied Optoelectronics, Inc.
8 Choudhury, Mabud	OFS	OFS
9 Dawe, Piers J G	NVIDIA	Nvidia
10 Dudek, Michael	Marvell	Marvell
11 Hu, Kangmin	Innogrit	Innogrit
12 Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
13 Ledentsov, Nikolay	VI Systems GmbH	VI Systems GmbH
14 Lin, Youxi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
15 Lingle, Robert	OFS	OFS
16 Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; Senko Advanced Components
17 Murty, Ramana	Broadcom Inc.	Broadcom Corporation
18 Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
19 Parsons, Earl	CommScope, Inc.	CommScope, Inc.
20 Piehler, David	Dell Technologies	Dell
21 Pimpinella, Rick	Panduit Corp.	Panduit Corp.
22 Quan, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
23 She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
24 Sivakolundu, Ramesh	Cisco Systems, Inc.	Cisco Systems, Inc.
25 Son, Yung Sung	Optomind Inc	Optomind Inc
26 Sun, Yi	OFS	OFS
27 Tang, Yi	Cisco Systems, Inc.	Cisco Systems, Inc.
28 Thompson, Lance	II-VI	II-VI
29 Ulrichs, Ed	Intel Corporation	Intel Corporation
30 Vanderlaan, Paul	UL LLC	Underwriters Laboratories, Inc. (UL)
31 Xie, Chongjin	Alibaba	Alibaba Cloud, Alibaba Group
32 Young, James	CommScope, Inc.	CommScope, Inc.