

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

Webex Meeting  
September 17, 2020  
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, September 17, 2020. Webex meeting.  
**Chair:** Robert Lingle, Jr, affiliated with OFS  
**Recording Secretary:** Mabud Choudhury, affiliated with OFS  
**Meeting Participants:** Attendance is listed in Appendix A (46 attendees – based on official IMAT attendance list; 53 Webex attendees)

**Call to order:**

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force (TF) Ad Hoc WebEx meeting was convened at 12:02 PM Eastern Daylight Time (EDT/ UTC -4), Thursday, September 17, 2020 by Robert Lingle, Jr., P802.3db TF Chair.

Mr. Lingle welcomed attendees. He asked attendees to use <http://imat.ieee.org/> to record attendance, and provided Session Code for the meeting. Attendance record based on IMAT only. There were some issues with IMAT at the start of the meeting that were corrected.

**Chair's Presentation:**

**Title:** "Agenda and General Information"

**Presenter:** Robert Lingle, Jr. (OFS)

[lingle\\_3db\\_adhoc\\_01\\_091720.pdf](#)

Mr. Lingle then proceeded with reviewing the **Agenda** and asked if there any modifications, additions or deletions? There were none.

12:11 PM: The agenda was approved by the Task Force without opposition. **Approved Agenda:**

- Meeting Attendance and Webex
- Approve Agenda
- Reflector and Web
- IEEE

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>

- Presentations

"Existing DSP Can Support 100 m Reach Objective" - Ali Ghiasi (Ghiasi Quantum)

- Future Meetings

Mr. Lingle showed the links to the IEEE P802.3db Task Force webpage, ad hoc page, and the email reflector.

12:12 PM: Chair reviewed “Call for potential Essential Patent Claims” slides 5-6 of [linge\\_3db\\_adhoc\\_01\\_091720.pdf](#) .

**IEEE Patent Policy** reminder: <http://www.ieee802.org/3/patent.html>

**IEEE SA Copyright Policy:** Mr. Lingle provided overview of slide 7 of [linge\\_3db\\_adhoc\\_01\\_091720.pdf](#) entitled “IEEE SA Copyright Policy”

IEEE Copyright reminder: <https://standards.ieee.org/ipr/index.html>

**IEEE SA Participation Policy:** Mr. Lingle showed the participation policy slide 8 of [linge\\_3db\\_adhoc\\_01\\_091720.pdf](#) .

IEEE Participant reminder: <http://www.ieee802.org/devdocs.shtml>

### **Contribution #1:**

**Title:** "Existing DSP Can Support 100 m Reach Objective"

**Presenter:** Ali Ghiasi (Ghiasi Quantum)

[ghiasi\\_3db\\_adhoc\\_01a\\_091720.pdf](#)

- Presentation covers ADC evolution, overview of DSP transceiver, DSP vs analog CDR for optics, CDR latency vs the network latency, reference equalizer to support 100 m PMD, need to move urgently in terms of project timeline/completion.
- Technical discussion followed
- Topics discussed included:
  - SDNR definition and page 3 references, should be 802.3bm and not 802.3cm for page 9, basis for 15 tap FFE (page 12), supporting data for claims, latency numbers, relative cost of retimer 30 m OM3 vs. 100 m OM4, 9 tap for 100 m OM4 optimum or not, timeline.
- Clarifying questions asked and answered
- Author welcomed feedback from the group.
- Presentation was updated (above link) to add the references for page 3 and correct power number.

Chair expressed desire to choose a direction on linear retimed interface vs. linear non-retimed optional interface and to generate tables for 50 m OM4/30 m OM3 vs. 100 m OM4 during the next few Ad Hoc meetings.

### **Future meetings:**

- See: <http://ieee802.org/3/calendar.html> and <http://ieee802.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 (EDT/UTC -4):

<http://www.ieee802.org/3/db/public/adhoc/index.html>

Next meeting Thursday, October 1, 12 Noon to 2 pm Eastern US (EDT/UTC -4)

The Task Force Ad Hoc meeting was adjourned at 1:34 PM EDT/ UTC -4, Thursday, September 17, 2020.

### **Next Meeting:**

Scheduled P802.3db TF ad hoc Webex meeting for Thursday, October 1, 2020 at 12:00 Noon – 2:00 PM EDT/UTC -4.

**Appendix A: IMAT Attendance List IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force WebEx Ad Hoc Meeting**

46 individuals attended on Thursday, 17 September 2020, 12:02 PM – 1:34 PM EDT/UTC -4

	<b>Last Name, First Name</b>	<b>Employer</b>	<b>Affiliation</b>
1	Abbott, John	Corning Incorporated	Corning Incorporated
2	Akbaba, Enis	Maxim Integrated Products	Maxim Integrated Products
3	Bhatt, Vipul	Finisar Corporation	Finisar Corporation
4	Bruckman, Leon	HUAWEI	HUAWEI
5	Chang, Yongmao	Inphi Corporation	Source Photonics
6	Chen, Chan	Applied Optoelectronics, Inc.	Applied Optoelectronics, Inc.
7	Choudhury, Golam	OFS	OFS
8	Dawe, Piers J G	Mellanox Technologies	Nvidia
9	Deandrea, John	Finisar Corporation	Finisar Corporation
10	Ferretti, Vincent	Corning Incorporated	Corning Incorporated
11	Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC, Inphi
12	Healey, Adam	Broadcom Inc.	Broadcom Inc.
13	Hu, Kangmin	Innogrit	Innogrit
14	Ingham, Jonathan	Foxconn Interconnect Technology	INDEPENDENT
15	Jackson, Kenneth	Sumitomo Electric Device Innovations, USA	Sumitomo Electric Industries, LTD
16	Kimber, Eric	Semtech Ltd	Semtech Ltd
17	Koleva, Vera	Finisar Corporation	Finisar Corporation
18	Kupfer, Theodor	Cisco Systems, Inc.	Cisco Systems, Inc.
19	Latchman, Ryan	MACOM	MACOM
20	Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
21	Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
22	Lewis, David	Lumentum Inc.	Lumentum Inc.
23	Lewis, Jon	Dell EMC	Dell EMC
24	Lingle, Robert	OFS	OFS
25	Lusted, Kent	Intel Corporation	Intel Corporation
26	Lyubomirsky, Ilya	Inphi Corporation	Inphi Corporation
27	Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
28	Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
29	Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.
30	Murty, Ramana	Broadcom Corporation	Broadcom Corporation
31	Nikolich, Paul	Self	SAMSUNG
32	Palkert, Thomas	EIC	Molex-Macom
33	Parsons, Earl	CommScope, Inc.	CommScope, Inc.
34	Pham, Phong	US Conec, Ltd.	US Conec, Ltd.
35	Piehler, David	Dell	Dell EMC
36	Pimpinella, Rick	Panduit Corp.	Panduit Corp.

37	Radhamohan, Rajeshmohan	MAXLINEAR INC	MaxLinear Inc
38	Shubochkin, Roman	OFS	OFS
39	Swanson, Steven	Corning Incorporated	Corning Incorporated
40	Thompson, Lance	Finisar Corporation	Finisar Corporation
41	Tracy, Nathan	TE Connectivity	TE Connectivity
42	Tsegaye, Tedros	Innolight Technology Corproation	Innolight Technology Corproation
43	Ulrichs, Ed	Source Photonics	Intel
44	Wang, Ruoxu	Huawei Technologies Co. Ltd	Huawei Technologies Co. Ltd
45	Young, James	CommScope, Inc.	CommScope
46	Zhang, Bo	Inphi Corporation	Inphi Corporation