

Approved Minutes
**IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force
Telephonic Meeting, July 2020 Plenary**

WebEx Meeting
July 14, 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: Tuesday, July 14, 2020. Telephonic meeting.

Chair: Robert Lingle, Jr, affiliated with OFS

Recording Secretary: Mabud Choudhury, affiliated with OFS

Meeting Participants: Attendance is listed in Appendix A (89 attendees)

Call to order:

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force (TF) Telephonic meeting during July 2020 IEEE 802.3 WG Plenary was convened at 10:02 AM Eastern Daylight Time (EDT/ UTC -4), Tuesday, July 14, 2020 by Robert Lingle, Jr., TF Chair.

Mr. Lingle welcomed attendees. He requested that each attendee indicate their name and employer/affiliation in an e-mail to the ad hoc recording secretary: Mabud Choudhury (mchoudhury@ofsoptics.com) for the meeting minutes.

Presentation #1:

Title: "Agenda and General Information"

Presenter: Robert Lingle, Jr. (OFS)

[agenda_3db_01_0720.pdf](#)

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

Agenda:

- Welcome and Introductions
- Approve Agenda
- Attendance
- Approve Meeting Minutes for June 11 Telephonic Interim
- Goals for this meeting
- Big Ticket Items
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- PAR & Objectives
- Liaisons and Communications
- Straw Polls & Motions

- Capture TF input on contributions needed
- Future Meetings

Motion #1:

Move to approve the Agenda for Interim TF Teleconference,
Slide 4 of [agenda_3db_01_0720.pdf](#)

- M: John Abbott
- S: Ali Ghiasi
- Approved by unanimous consent. (Procedural > 50%)

Agenda approved at 10:05 AM

Attendance: Chair requested that everyone log in to <http://imat.ieee.org/> >> select 802 Plenary – July 2020 –Electronic” >> C/LM/WG802.3 Attendance to officially record their attendance. Note that to get credit for attending the July Plenary (held as telephonic meetings this year), you must record attendance at 6 of 8 dates via imat.

Approve Meeting Minutes for June 11 Telephonic Interim. Mr. Lingle asked if there were any corrections/updates to the posted unapproved meeting minutes. There were none.

Motion #2:

Move to approve meeting minutes for June 11, 2020 IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force Telephonic Interim meeting:
[unapproved_meeting_minutes_3db_01a_0620.pdf](#)

- M: Jim Young
- S: Jon Lewis
- Approved by unanimous consent. (Procedural > 50%)

Chair reviewed **Task Force Decorum**.

He then reviewed **Goals** for the meeting:

- Review and approve liaison letter from IEEE 802.3 to INCITS T11.2 (Fibre Channel)
- Straw polls regarding PCS/FEC/PMA reuse
- Straw polls regarding reach, objectives to identify input needed in the form of contributions

And **Big ticket items** for the meeting:

- Re-use of FEC/PCS/PMA from previous projects
- Newer applications stress low-cost/power solutions for server attachment
- Established application focuses on 100m reach for switch-to-switch connections

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.

He then covered the **Ground Rules** based on 802.3 rules.

Chair reviewed the IEEE structure, important bylaws, and rules.

Chair reviewed the **Guidelines for IEEE SA Meetings**

IEEE SA Patent Policy: Mr. Lingle provided overview of slides 15-18 of [agenda 3db 01 0720.pdf](#).

Chair made call of essential patents at 10:18 AM. No one indicated any essential patents.

IEEE SA Copyright Policy: Mr. Lingle provided overview of slides 20-21 of [agenda 3db 01 0720.pdf](#) entitled "IEEE SA Copyright Policy"

IEEE SA Participation Policy: Mr. Lingle showed the participation policy slides 22-24 of [agenda 3db 01 0720.pdf](#).

Mr. Lingle provided overview on the IEEE 802.3 **standards process**, indicating that we had successfully completed the Study Group phase, and provided an overview of the Task Force phase.

Liaison Letter: Task Force reviewed and updated liaison letter from IEEE 802.3 Working Group to INCITS T11.2 and T11.3 Task Groups that had been prepared by Tom Palkert, affiliated with MACOM, and had been previously reviewed and updated during July 9 TF ad hoc telephonic meeting. Mr. Palkert provided background for the liaison letter. TF updated the letter by removing the phrase "begin a liaison with T11.2" since there is already an existing liaison relationship between IEEE 802.3 and INCITS T11. TF also agreed to include both T11.2, Fibre Channel Physical Variants Task Group, and T11.3, Fibre Channel Interconnection Schemes Task Group in terms of T11 groups to foster an exchange of information on 100 Gb/s signaling for MMF optical links.

Updated liaison letter: [IEEE 802d3db to INCITS T11d2 0720 draft v3.pdf](#)

Motion #3:

Move that the IEEE P802.3db Task Force approve [IEEE 802d3db to INCITS T11d2 0720 draft v3.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: Mike Dudek
- S: Tom Palkert
- Approved by unanimous consent. (Technical >= 75%)

The Chair provided links for Draft PAR, CSD and Objectives.

- [PAR](#)
- [Criteria for Standards Development](#)
- [Objectives](#)

Chair indicated that the scope of IEEE P802.3db is limited by the PAR.

Mr. Lingle reviewed the SG approved Objectives.

Straw Polls and Motions:

TF discussed proposed straw poll on PCS/FEC/PMA reuse. No TF participants indicated that they would vote No to the proposed straw poll, so Mark Gustlin and Kent Lusted, who had proposed the straw poll, agreed to move to a motion on PCS/FEC/PMA reuse without conducting the straw poll. 802.3 voters only for motions in TF electronic meetings.

Motion #4:

Move to adopt:

- Clause 119 as the PCS/FEC and Clause 120 as the PMA for all 200 Gb/s and 400Gb/s PHYs for this project
- Clause 82 as the PCS, Clause 91 as the FEC (RS544), and Clause 135 as the PMA for all 100 Gb/s PHYs for this project
- M: Mark Gustlin
- S: Kent Lusted
- (Technical >=75%)
- Approved by unanimous consent

Chair’s straw polls:

- The following straw polls are intended to take a current snapshot of the group’s thinking, without intending to take any motions based on the results.
- The purpose was to understand what contributions would be valuable in coming weeks
- These straw polls should be read remembering that .3db has 50m objectives in place, by default.
- The distances referenced [20-30m] and [80-100m] are intended to be illustrative of the shorter and longer reach requirements, respectively, of the server-attachment and switch-to-switch link application spaces.
- These straw polls are not intended to measure support for a specific reach number to be used in an objective.

The TF discussed the straw polls. There was a request to make the straw polls roll call votes. All TF participants can vote on the straw polls.

Straw Poll #1:

I believe there is a need for a cost/power-optimized PMD for server-attachment applications [for example 20-30m]:

- Y: 34 N: 6 A: 26

Roll call vote results for straw poll #1:

Attendees	Yes	No	Abstain
Dave Estes - Spirent			X
Alex Haser Molex			X
Massimo Sorbara Globalfoundries			X
Vipul Bhatt II-VI	X		
Thomas Palkert Guest	X		
Ed			X
Rick Pimpinella	X		
Ferretti, Vince E.	X		
James Young	X		
Mau-Lin Wu	X		
David Piehler [Dell EMC]			X
Chan Chih David Chen AOI	X		
Howard Heck	X		
Steve Trowbridge		X	

Matt Bolig			X
JOHN S ABBOTT	X		
Greg D Le Cheminant			X
Beth Kochuparambil - Cisco			X
Tom Issenhuth			X
Mabud Choudhury OFS	X		
Piers		X	
David Lewis Lumentum	X		
Peter Stassar Huawei			X
Ramana Murty			X
Shawn Nicholl Xilinx			
lance.thompson	X		
John D'Ambrosia			X
Yasuo Hidaka Guest			X
Jon Lewis - Dell EMC	X		
Inho Kim Marvell			X
Guangcan Mi/Huawei			
Mike Dudek	X		
Guest			
Jeffery Maki Juniper	X		
John DeAndrea			X
Mitch			
frank			X
Flavio Marques			X
mike klempa unh iol			X
Rajmohan Hegde			X
Ed Ulrichs	X		
Arthur Marris	X		
ledentsov	X		
Theodor Kupfer			
Leon Bruckman Huawei		X	
Richard Pitwon			
Luisma Torres	X		
Masato Shiino FURUKAWA			
Hao Ren HUAWEI			
Tadashi Takahashi			
Takayama, Kazuya Nitto Denko Corp.			
Ruoxu WangHuawei			X
Yasuhiro Hyakutake AD-Na			X
ruibohancmcc			
M. Kagami NITech			X
Dawei Fan			
Jim Theodoras HG Genuine	X		

John Kamino			
Earl Parsons CommScope	X		
Adam Healey			X
STEVEN E SWANSON	X		
Maniloff, Eric Ciena	X		
Richard Mellitz Samtec			
Kenneth Jackson Sumitomo	X		
Zhigang Gong O-Net	X		
Takeo Masuda			
RICARDO RABINOVICH		X	
Xiang He Huawei			
Raymond Nering	X		
David Chalupsky Intel	X		
Ali Ghiasi		X	
Kent Lusted	X		
david malicoat Independent / Senko	X		
Enis Akbaba	X		
Jonathan Ingham		X	
Jane Lim			X
Mike Li Intel	X		
Xinyuan WangHuawei			X
roywang	X		
Ayla Chang	X		
David Ofelt			X
Jose Castro	X		

Straw Poll #2:

I believe there is a need for a longer, reach-optimized PMD for switch-to-switch applications [for example 80-100m]:

- Y: 24 N: 6 A: 24

Roll call vote results for straw poll #2:

Attendees	Yes	No	Abstain
Dave Estes - Spirent			X
Alex Haser Molex			X
Massimo Sorbara Globalfoundries			X
Vipul Bhatt II-VI	X		
Thomas Palkert Guest		X	
Ed			X
Rick Pimpinella	X		
Ferretti, Vince E.	X		
James Young	X		

Mau-Lin Wu			
David Piehler [Dell EMC]			
Chan Chih David Chen AOI			X
Howard Heck			X
Steve Trowbridge		X	
Matt Bolig	X		
JOHN S ABBOTT	X		
Greg D Le Cheminant			X
Beth Kochuparambil - Cisco			X
Tom Issenhuth			X
Mabud Choudhury OFS	X		
Piers		X	
David Lewis Lumentum		X	
Peter Stassar Huawei	X		
Ramana Murty	X		
Shawn Nicholl Xilinx			X
lance.thompson	X		
John D'Ambrosia			X
Yasuo Hidaka Guest			X
Inho Kim Marvell			X
Guangcan Mi/Huawei		X	
Mike Dudek			X
Guest			
Jeffery Maki Juniper	X		
John DeAndrea			
Mitch			
frank	X		
Flavio Marques			X
mike klempa unh iol			
Rajmohan Hegde			X
Ed Ulrichs	X		
Arthur Marris			X
ledentsov	X		
Leon Bruckman Huawei	X		
Richard Pitwon			
Luisma Torres	X		
Masato Shiino FURUKAWA			
Hao Ren HUAWEI			
Tadashi Takahashi			
Takayama, Kazuya Nitto Denko Corp.			
Ruoxu WangHuawei			X
Yasuhiro Hyakutake AD-Na		X	
ruibohancmcc			

M. Kagami NITech			
Dawei Fan			
Jim Theodoras HG Genuine	X		
John Kamino			
Earl Parsons CommScope	X		
Adam Healey			X
STEVEN E SWANSON	X		
Maniloff, Eric Ciena			X
Richard Mellitz Samtec			
Kenneth Jackson Sumitomo	X		
Zhigang Gong O-Net	X		
Takeo Masuda			
RICARDO RABINOVICH	X		
Xiang He Huawei	X		
Raymond Nering	X		
David Chalupsky Intel			
Kent Lusted			X
david malicoat Independent / Senko			X
Enis Akbaba			X
Jonathan Ingham	X		
Jane Lim			
Mike Li Intel			
Ali G	X		
Xinyuan WangHuawei			
roywang			
Ayla Chang			
David Ofelt			X
Jose Castro			

Straw Poll #3:

I currently believe the IEEE P802.3db TF should:

- A. make no change to the current 50m objectives,
- B. modify the current 50m objective to longer reach [for example 80-100m], or
- C. have two objectives including one optimized for cost/power [for example 20-30m] and one optimized for longer reach [for example 80-100m]

- A: 17 B: 3 C: 31

Roll call vote results for straw poll #3:

Attendees	A	B	C
Dave Estes - Spirent	X		
Alex Haser Molex			
Massimo Sorbara Globalfoundries			X
Vipul Bhatt II-VI			
Thomas Palkert Guest	X		
Ed	X		
Rick Pimpinella			X
Ferretti, Vince E.			X
James Young			X
Mau-Lin Wu			X
Chan Chih David Chen AOI	X		
Howard Heck	X		
Steve Trowbridge	X		
JOHN S ABBOTT			X
Greg D Le Cheminant			X
Tom Issenhuth			
Mabud Choudhury OFS			X
Piers	X		
David Lewis Lumentum			X
Peter Stassar Huawei	X		
Ramana Murty		X	
Shawn Nicholl Xilinx			
lance.thompson			X
John D'Ambrosia	X		
Yasuo Hidaka Guest			
Inho Kim Marvell			
Guangcan Mi/Huawei			
Mike Dudek			X
Guest			
Jeffery Maki Juniper	X		
John DeAndrea			X
Mitch			
frank			
Flavio Marques	X		
mike klempa unh iol			
Rajmohan Hegde			
Ed Ulrichs			X
VIET TRAN			X
Jon Lewis - Dell EMC	X		
Ali Ghiasi		X	
LIU			

Iedentsov			X
Leon Bruckman Huawei		X	
Luisma Torres			X
Richard Pitwon			X
Timothy De Keulenaer	X		
Masato Shiino FURUKAWA			
Hao Ren HUAWEI			
Tadashi Takahashi			X
Takayama, Kazuya Nitto Denko Corp.			
Ruoxu WangHuawei			
Yasuhiro Hyakutake AD-Na			X
ruibohancmcc			
M. Kagami NITech			
Dawei Fan			
Jim Theodoras HG Genuine			X
John Kamino			
Earl Parsons CommScope			X
Adam Healey			
STEVEN E SWANSON			X
Maniloff, Eric Ciena	X		
Richard Mellitz Samtec			
Kenneth Jackson Sumitomo			X
Zhigang Gong O-Net			X
Takeo Masuda			
RICARDO RABINOVICH			X
Xiang He Huawei			X
Raymond Nering	X		
David Chalupsky Intel			
Kent Lusted	X		
david malicoat Independent / Senko			X
Enis Akbaba			X
Jonathan Ingham	X		
roywang			X
Ayla Chang			X
David Ofelt			
Jose Castro			X

Future Meetings:

- See: <http://ieee802.org/3/calendar.html> and <http://ieee802.org/3/interims/index.html>
- P802.3db Ad Hoc Teleconferences are currently scheduled biweekly on Thursdays at Noon Eastern US (EDT, UTC -4):

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

The next scheduled TF ad hoc telephonic meeting was scheduled for Thursday, August 6 (the meeting for July 23 conflicted with WG closing plenary). Chair asked TF if there was benefit in having additional off-cycle meeting for Thursday, July 30. Response was positive. Chair announced that there will be a TF ad hoc Webex meeting (pending contributions) on Thursday, July 30, 12:00 noon – 2:00 PM EDT/UTC -4.

Motion #5:

Move to Adjourn TF Telephonic Interim Meeting

- M: John D’Ambrosia
- S: James Young
- Approved by unanimous consent. (Procedural > 50%)

The Task Force Telephonic meeting was adjourned at 12:02 PM EDT/ UTC -4, Tuesday, July 14, 2020.

Next Meeting:

Scheduled (pending contributions) P802.2db TF Ad Hoc Webex meeting for Thursday, July 30, 2020 at 12:00 noon – 2:00 PM EDT/UTC -4.

Appendix A: Attendees at the IEEE 802.3 100 Gb/s Wavelength Short Reach PHYs Study Group Telephonic Meeting during July Plenary, 14 July 2020.

89 individuals signed in to imat on Tuesday, 14 July 2020, 10:02 AM – 12:02 PM EDT/UTC -4

	Name	Affiliation
1	Abbott, John	Corning Incorporated
2	Aekins, Rob	Legrand
3	Akbaba, Enis	Maxim Integrated Products
4	Brooks, Paul	Viavi Solutions
5	Bruckman, Leon	HUAWEI
6	Chalupsky, David	Intel Corporation
7	Chang, Xin	Huawei Technologies Co. Ltd
8	Chang, Yongmao	Source Photonics
9	Chen, Chan	Applied Optoelectronics, Inc.
10	Choudhury, Mabud	OFS
11	Chuang, Keng Hua	Hewlett-Packard Development Company, L.P.
12	D’Ambrosia, John	Futurewei (U.S. Subsidiary of Huawei)
13	Dawe, Piers J G	Mellanox Technologies
14	Deandrea, John	Finisar Corporation
15	De Keulenaer, Timothy	Mellanox Technologies
16	Dudek, Michael	Marvell
17	Estes, David	Spirent Communications
18	FAn, DAWEI	Huawei Technologies Co., Ltd

19	Ghiasi, Ali	Ghiasi Quantum LLC, Inphi
20	Gong, Zhigang	O-Net Communications Ltd.
21	Gustlin, Mark	Cisco Systems, Inc.
22	Haser, Alexandra	Molex Incorporated
23	He, Xiang	HUAWEI
24	Healey, Adam	Broadcom Inc.
25	Heck, Howard	Intel Corporation
26	Hegde, Rajmohan	Broadcom Ltd.
27	Hidaka, Yasuo	INDEPENDENT
28	Huber, Thomas	Nokia
29	HYAKUTAKE, YASUHIRO	Adamant Namiki Precision Jewel Co., Ltd.
30	Ingham, Jonathan	Broadcom Corporation
31	ISHIBE, KAZUHIKO	Anritsu Company
32	Isono, Hideki	Fujitsu Optical Components Limited
33	Issenhuth, Tom	Huawei Technologies Co. Ltd
34	Jackson, Kenneth	Sumitomo Electric Industries, LTD
35	Kagami, Manabu	Nagoya Institute of Technology (NITech)
36	Kim, Inho	Marvell
37	Kimber, Eric	Semtech Ltd
38	Klempa, Michael	University of New Hampshire InterOperability Laboratory (UNH-IOL)
39	Kochuparambil, Elizabeth	Cisco Systems, Inc.
40	Le Cheminant, Greg	Keysight Technologies
41	Lewis, David	Lumentum Inc.
42	Lewis, Jon	Dell EMC
43	Li, Mike-Peng	Intel Corporation
44	Lim, Jane	Cisco Systems, Inc.
45	Lingle, Jr., Robert	OFS
46	Liu, Hai-Feng	Intel Corporation
47	Lusted, Kent	Intel Corporation
48	Lyubomirsky, Ilya	Inphi Corporation
49	Malicoat, David	Malicoat Networking Solutions; SENKO Advanced Components
50	Maniloff, Eric	Ciena Corporation
51	Marques, Flavio	FURUKAWA ELECTRIC
52	Marris, Arthur	Cadence Design Systems, Inc.
53	MASUDA, TAKEO	OITDA
54	Mellitz, Richard	Samtec, Inc.
55	mi, guangcan	Huawei Technologies Co. Ltd
56	Murty, Ramana	Broadcom Corporation
57	Nakamoto, Edward	Spirent Communications
58	Nering, Raymond	Cisco Systems, Inc.
59	Nicholl, Shawn	Xilinx
60	Nowell, Mark	Cisco Systems, Inc.
61	Ofelt, David	Juniper Networks, Inc.

62	Palkert, Thomas	Molex-Macom
63	Parsons, Earl	CommScope, Inc.
64	Perez De Aranda Alonso, Ruben	KDPOF
65	Piehler, David	Dell EMC
66	Pimpinella, Rick	Panduit Corp.
67	Pitwon, Richard	AIO Core
68	Rabinovich, Rick	Keysight Technologies
69	Ren, Hao	HUAWEI
70	She, Qingya	Fujitsu Network Communications
71	Shiino, Masato	FURUKAWA ELECTRIC
72	Sorbara, Massimo	GLOBALFOUNDRIES
73	Stassar, Peter	Huawei Technologies Co. Ltd
74	Swanson, Steven	Corning Incorporated
75	TAKAHARA, TOMOO	FUJITSU LIMITED
76	Takahashi, Tadashi	Nitto Denko Corporation
77	Takayama, Kazuya	Nitto Denko Corporation
78	Theodoras, James	HG Genuine
79	Thompson, lance	Finisar Corporation
80	Torres, Luis	Knowledge Development for Plastic Optical Fiber
81	Tran, Viet	Keysight Technologies
82	Trowbridge, Stephen	Nokia
83	Ulrichs, Ed	Intel
84	Wang, Roy	Hewlett Packard Enterprise
85	Wang, Ruoxu	Huawei Technologies Co. Ltd
86	Wang, Xinyuan	Huawei Technologies Co. Ltd
87	Wu, Mau-Lin	MediaTek Inc.
88	Young, James	CommScope
89	Zhuang, Yan	Huawei Technologies Co. Ltd