

Meeting Minutes

Group: IEEE Greater than 50G bidirectional optical access PHYs task force meeting

Location: Annapolis Westin and Zoom teleconference

Date: May 13, 2024

Opening

08:00 (GMT-4) The meeting was called to order by Yuanqiu Luo, chair. Frank Effenberger volunteered to be the Recording Secretary.

The task force chair gave her opening introduction on decorum. There were no members of the press in the meeting. The attendance will be registered using the IMAT system.

Motion 1

- Move to approve the agenda, located at:
 - https://grouper.ieee.org/groups/802/3/dk/public/2405/8023dk_2405_Task_Force_agenda.pdf
- M: Liming Geng S: Ken Jackson
- Motion result: **Approved by voice without opposition.**

Motion 2

- Move to approve the minutes from April 2024 (with slight revision), located at:
 - https://grouper.ieee.org/groups/802/3/dk/public/2404/2404_8023dk_unapproved_minutes_r1.pdf
- M: Sisi Tan S: Frank Effenberger
- Motion result: **Approved by voice without opposition.**

IEEE SA patent policy, individual participation behavior, copyright policy

The Task Force Chair reviewed the Individual Participation Behavior slides, the IEEE SA copyright policy and presented the IEEE SA Patent Policy slides. The call for patents was made at **08:25 and no one responded.**

All the usual IEEE policies and procedures were reviewed.

Goals for the May meeting were to consider the continuing draft of the 100G clause and discuss contributions on various technical issues, and editor's suggestions for completing the sub-clauses.

A liaison response to ITU-T SG15 was considered. Some slight edits for clarity were made. The revised document will be submitted to the closing plenary meeting on Thursday for consideration.

Draft review

The draft 0.4 was reviewed. All the recent agreed materials have been added, including the PICS. There were no immediate comments on this draft.

It can be found at: <https://www.ieee802.org/3/dk/private/index.html> (password protected)

Presentation

Presentations	Contributor	Affiliation
Potential way forward for 100GBASE-BR20 and BR40	Frank Effenberger	Futurewei

This presented a compromise solution where the BR20 APD sensitivity is -12.8, and the BR40 sensitivity is -13.5 dBm. This had some support by members in the group. The BR40 discussion group is working right now to produce more experimental data, and we look forward to getting a contribution to our next meetings. The sensitivity for BR40 might be -13.2 dBm.

TBD specs in the 100G BiDi clause	Sisi Tan	Huawei
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This highlighted several parameters that are now marked TBD. Some of these might be filled in from previous clauses. The reflectivity tables could be re-simulated. The DGD in the compliance channel is very low by design because that is used to test TDECQ and a high DGD would prevent an accurate test.

200 GBASE-BR baseline proposal	Frank Effenberger	Futurewei
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This presented the idea of defining the 200 GBASE bidi using two downstream and two upstream wavelengths. The update of the results from ITU-T is expected to make the BR40 dispersion values feasible. There are three arrangements of the wavelengths that could be envisioned. Some more study of these are needed to make the final choice.

The arrangement of the clauses was discussed. We could make 100G and 200G separate and independent clauses; however, these will be highly repetitive. We could merge the two clauses together. A third option is where there are two clauses, but the 200G clause would act as a delta document pointing to the 100G clause for all the parameters that are the same.

Discussions, straw-polls, other motions

There was a discussion on the way forward. We are expecting the APD sensitivity question to be progressed. Currently, we have BR10 and BR40 mostly completed. BR20 is empty, but it is likely that that column will be almost a copy of BR40. Frank Effenberger promised to create a full baseline for BR20, and solicit inputs from the group. The group is also encouraged to consider the "TBDS" from Sisi Tan's presentation, and make contributions to fill those out.

Future meeting plan

The plans for our next meetings were discussed. An interim zoom call will be June 12, 09:00 to 10:00 EDT (New York, GMT-4). The July 15-18 plenary is in Montreal, QC, Canada. .3dk will meet Monday afternoon and Tuesday morning.

The Sep 16-20 interim is in Hamburg Germany.
The Nov 11-15 plenary is in Vancouver BC, Canada.

That brought us to the end of the agenda. The chair thanked all our participants.

Motion #3

Move to adjourn the meeting.

M: Ken Jackson S: Sisi Tan

Motion passes by voice without opposition.

10:51 (GMT-4) Meeting adjourned

Attendees (19)

Name	Affiliation	<u>5/13/2024</u>
Boyer, Rich	Aptiv - Signal and Power Solutions	X
Cai, Yuefeng	Huawei Technologies Co., Ltd	X
Effenberger, Frank	Futurewei Technologies	X
Ferretti, Vincent	Corning Incorporated	<u>X</u>
Gauthier, Claude	NXP Semiconductors	<u>X</u>
Geng, Limin	Huawei Technologies Co., Ltd	<u>X</u>
Jackson, Kenneth	Sumitomo Electric Industries, LTD	<u>X</u>
Johnson, John	Broadcom Corporation	<u>X</u>
Kapoor, Samay	Aviva Links Inc.	<u>X</u>
Luo, Yuanqiu	Futurewei Technologies	<u>X</u>
Maniloff, Eric	Ciena Corporation	<u>X</u>
mi, guangcan	Huawei Technologies Co., Ltd	<u>X</u>
Nering, Raymond	Cisco Systems, Inc.	<u>X</u>
Ninomiya, Tiger	Accelink USA Corporation	<u>X</u>
Pal, Debajyoti	ON Semiconductor	<u>X</u>
Sharma, Rohit	Molex Incorporated	<u>X</u>
Stassar, Peter	Huawei Technologies Co., Ltd	<u>X</u>
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	<u>X</u>
TAN, SISI	Huawei Technologies Co., Ltd	<u>X</u>