

Meeting Minutes

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

Location: Zoom teleconference

Date: June 12, 2024

Opening

09:00 (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 manually from the Zoom system.

Motion 1

- Move to approve the agenda, located at:
 - https://grouper.ieee.org/groups/802/3/dk/public/2406/8023dk_2405_Task_Force_agenda.pdf
M: Ken Jackson S: Sisi Tan
- Motion result: Approved by voice without opposition.

Motion 2

- Move to approve the minutes from May 2024, located at:
 - https://grouper.ieee.org/groups/802/3/dk/public/2405/2405_8023dk_unapproved_minutes.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 09:12 and no one responded.

All the usual IEEE policies and procedures were reviewed.

Goals for the April 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.

Presentations

Presentations	Contributor	Affiliation
100GBASE-BR40: Updates to Tables	Kenneth Jackson James Kannan Tomoo Takahara Hirotaaka Nakamura	Sumitomo Electric Fujitsu NTT Innovative Devices

	Takuya Kanai	
This compiled the BR40 values that have been presented previously into the format from the draft. Comments were given on some of the values, comparing them to previous clauses. There were several cases where some discrepancies were found, and those should be investigated. Also, the table of fiber specifications seems to be missing in clause 160. A brief analysis on PMD was shown.		
Transmit Specification Discussion based on Receiver Performance	Bin Shi Yongpeng Zhao	SiFotonics
This presented more sensitivity data on the SiGe APD devices. These suggest that the 1 dB lower (better) sensitivity could be used if this device type is used.		
Discussion on 100GBASE-BR40 Receiver Sensitivity	Tomoo Takahara Hirota Nakamura Takuya Kanai	Fujitsu NTT Innovative Devices
This discussed the question of APD sensitivity, and proposed -13.2 dBm as the sensitivity to use for BR40. If the group wants to move forward with this, then the entire power budget would be shifted down 0.4 dB. This can be seen as a compromise proposal as compared to the previous proposal. This will be discussed at the coming plenary, and hopefully a consensus value can be found.		

Discussions, straw-polls, other motions

Future meeting plan

The plans for our next meetings were discussed.

- The July 15-18 plenary is in Montreal, QC, Canada. .3dk will meet Monday afternoon and Tuesday morning.
- August zoom call suggested Aug-13, 08:00-09:00 EDT.
- The Sep 16-20 interim is in Hamburg Germany.
- The Nov 11-15 plenary is in Vancouver BC, Canada.

Other discussion:

It was observed that the BR40 is 10 to 18 dB budget, while the BR20 is 0 to 10 dB. If the Rx is common between these two, then there is no chance of interoperation. Some suggestions to address this would be to use a slightly less sensitive Rx for BR20 (hence shifting the power budget upwards), and also changing the BR40 loss range to 8 to 18 dB (APD input range can handle this, at least for BR20). Ken Jackson will reach out to APD experts to consider this.

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.

10:20 (GMT-4) Meeting adjourned

Attendees (15)

Craig Pasek	Cisco
Frank Effenberger	Futurewei
Guangcan Mi	Huawei
John Johnson	Broadcom
Ken Jackson	Sumitomo
Limin Geng	Huawei
PramodKumar	GM
Shi Bin	SiFotonics
Sisi Tan	Huawei
Takuya Kanai	NTT
Tomoo Takahara	Fujitsu
Vince Ferretti	Corning
Yuanqiu Luo	Futurewei
Yuefeng Cai	Huawei
Yongpeng Zhao	SiFotonics