

# Meeting Minutes

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

*Location: Montreal, Canada*

*Date: July 15, 2024*

## Opening

13:15 (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/2407/8023dk\\_2407\\_Task\\_Force\\_agenda.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2407/8023dk_2407_Task_Force_agenda.pdf)
- M: Sisi Tan      S: John Johnson
- Motion result: Approved by voice without opposition.

### Motion 2

- Move to approve the minutes from June 2024, located at:
  - [https://grouper.ieee.org/groups/802/3/dk/public/2406/2406\\_8023dk\\_unapproved\\_minutes.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2406/2406_8023dk_unapproved_minutes.pdf)
- M: Frank Effenberger      S: Vince Ferretti
- Motion result: Approved by voice without opposition.

Goals for the July meeting are to complete the baselines for 100GBase PMDs.

## 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 13:46 and no one responded.**

All the usual IEEE policies and procedures were reviewed. The copyright policy was reviewed at 13:49, and the individual participation policy was reviewed at 13:51.

Incoming liaison from ITU-T SG15 was reviewed, including the attached revision of G.652. The discussion suggested that a liaison out of this meeting is not so necessary, and that perhaps in September or November a liaison could be considered. Of note, the Q5 next meeting will be virtual in December 2024.

## Presentations

Presentations	Contributor	Affiliation
<a href="#">100GBASE-BR10: updates to tables (revision a)</a>	Kenneth Jackson James Kannan Takuya Kanai Hirotaka Nakamura	Sumitomo Electric NTT Innovative Devices
This presented some comments on the contents of the tables for 100G-BR10, presented as a delta from the text in D0.4. There were some comments on how to improve alignment with other clauses (e.g., 802.3dj) by adopting their clarifications for various issues.		
<a href="#">100GBASE-BR40: update to tables</a>	Tomoo Takahara Hirotaka Nakamura Takuya Kanai	Fujitsu NTT Innovative Devices
This gave some updates to the BR40 tables, driven by setting the Rx sensitivity to be -13.2 dBm OMA outer. Then all the transmitter values are similarly adjusted.		
<a href="#">100GBASE-BR40: updates to tables (revision a)</a>	Kenneth Jackson James Kannan Tomoo Takahara Hirotaka Nakamura Takuya Kanai	Sumitomo Electric Fujitsu NTT Innovative Devices
This gives all the edits that are needed to implement the previous presentation. All the optical budget numbers are reduced by 0.4 dB.		
After the break, we reviewed two modified versions of the BR10 and BR40 that captured the comments made in the first session. These will be the subject of a motion later.		
<a href="#">100GBASE-BR20 baseline proposal (revision a)</a>	Kenneth Jackson James Kannan Tomoo Takahara Hirotaka Nakamura Takuya Kanai	Sumitomo Electric Fujitsu NTT Innovative Devices
This gave a suggestion of the optical levels for BR20. This proposed to reduce the loss range to be 2 to 10 dB, and also to reduce the sensitivity by 1 dB such that BR20 and BR40 can be interconnected for a small range of loss values.		
<a href="#">TBD specs of 100G-BR20</a>	Sisi Tan Frank Effenberger	Huawei Futurewei
This gave an alternative proposal of how to fill in the BR20 tables. The ORL tolerance was discussed, but the group thought that 15 dB is better for BR20 and BR40. This is based on a 0 to 10 dB loss range, and a sensitivity of -12.8.		

## Discussions, straw-polls, other motions

### Motion 3

- Move to accept 100Base-BR10 table values in presentation:  
[https://grouper.ieee.org/groups/802/3/dk/public/2407/3dk\\_jackson\\_2407\\_1b.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2407/3dk_jackson_2407_1b.pdf)  
as updates to the baseline.
- M: Kenneth Jackson      S: Tomoo Takahara
- Motion result: Approved by voice without opposition.

#### Motion 4

- Move to accept 100Base-BR40 table values in presentation:  
[https://grouper.ieee.org/groups/802/3/dk/public/2407/3dk\\_jackson\\_2407\\_2b.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2407/3dk_jackson_2407_2b.pdf)  
as updates to the baseline, except with leaving DGD\_max in the fiber optic cabling (channel characteristics) as TBD.
- M: Kenneth Jackson            S: Frank Effenberger
- Motion result: Approved by voice without opposition.

#### Motion 5

- Move to accept 100Base-BR20 table values in presentation:  
[https://grouper.ieee.org/groups/802/3/dk/public/2407/3dk\\_tan\\_2407\\_1a.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2407/3dk_tan_2407_1a.pdf)  
as the baseline.
- M: Sisi Tan                    S: Eric Maniloff
- Motion result: Approved by voice without opposition.

The consensus of the meeting was for the editor to create draft 0.5 capturing all these baselines for 100G BR optics. Some discussion of 200G was made. It seems that 200G would be a straightforward repetition of 100G, with the one wrinkle being the fiber dispersion for the BR40.

### Future meeting plan

The plans for our next meetings were discussed.

- August interim zoom call suggested Aug-13, 08:00-09:00 EDT.  
The expectation for this call is to review draft 0.5, and receive contribution on 200G and fixing any TBDs in the draft.
- The Sep 16-20 interim is in Hamburg Germany. .3dk will meet on Monday.
- 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 6

Move to adjourn the meeting.

M: Vince Ferretti            S: Peter Stassar

Motion passes by voice without opposition.

17:18 (GMT-4)            Meeting adjourned

### Attendees (20)

Conrad Zerna	Aviva Links
Doug Harshbarger	Corning
Eric Maniloff	Ciena
Frank Effenberger	Futurewei
Guangcan Mi	Huawei
John Johnson	Broadcom
Ken Jackson	Sumitomo
Kjersti Martino	Inneos
Kumi Omori	NEC
Limin Geng	Huawei

Masato Shiino	Furukawa Electric
Michelle Whisnant	UNH IOL
Peter Stassar	Huawei
Ray Nering	Cisco
Sisi Tan	Huawei
Tiger Ninomiya	Accelink USA
Tomoo Takahara	Fujitsu
Vince Ferretti	Corning
Yuanqiu Luo	Futurewei
Yuefeng Cai	Huawei