

Meeting Minutes

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

Location: Zoom teleconference

Date: Dec 12, 2023

Opening

08:00 (GMT-5) 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, and an attendance list will be passed around.

Motion 1

- Move to approve the agenda, located at:
 - https://grouper.ieee.org/groups/802/3/dk/public/2312/8023dk_2312_Task_Force_agenda.pdf
- M: Sisi Tan S: Hanhyub Lee
- Motion result: Approved by voice without opposition.

Motion 2

- Move to approve the minutes from Nov 2023, located at:
 - https://grouper.ieee.org/groups/802/3/dk/public/2312/2311_8023dk_unapproved_minutes.pdf
- M: Limin Geng S: John Johnson
- Motion result: Approved by voice without opposition.

The study group chair gave her opening introduction on goals, big ticket items, ground rules, process, attendance tool, and patent policy.

08:15 The task force acting chair made a call for patents; no response was made.

08:18 The task force chair reviewed the IEEE Participation guidelines and the IEEE SA Copyright policy.

All the usual IEEE policies and procedures were reviewed.

Goals for the November meeting were to consider the first draft of the 100G clause and discuss contributions on various technical issues.

Presentations	Contributor	Affiliation
Proposed subclause 999.7 on 100G BiDi definition of optical parameters and measurement methods	Sisi Tan	Huawei

This proposed the reuse of subsection 7 from clause 140, with certain exceptional cases where clause 160 is a more relevant source. It was commented that more material should be given by reference, and less copying. It was observed that this makes it difficult for the reader, at least during the amendment phase. A suggested way forward would be to copy the relevant material but put a disclaimer "An explanation of references" at the top of each section stating that "This subsection is an exact copy of subsection [reference]. In case of any difference, the [reference] will take precedence."

[Proposed subclause of 999.9 on 100G BiDi fiber optic cabling model](#) Sisi Tan Huawei

This proposed reusing material from clause 140 and 160 for the fiber cabling subsection. It was commented that the discussion on IEC reference in the maintenance project should be reviewed.

[Proposed subclause 999.10 on 100G BiDi characteristics of the fiber optic cabling \(channel\)](#) Sisi Tan Huawei

This proposed the similar reuse of material from clause 140 and 160.

A **motion #3** was made to adopt proposals from contributions 3dk_tan_2312_1, 3dk_tan_2312_2, and 3dk_tan_2312_3 as baseline of Clauses 999.7, 999.9 and 999.10. Give editor the editorial license to add the explanations of references.

M. Sisi Tan S: Ken Jackson

Motion approved without objection.

[PMD parameters of 40-km specification \(BR40\)](#) Tomoo Takahara Fujitsu
Takuya Kanai NTT
Hirotaka Nakamura NTT

This considered the optical levels given in the 100G MSA as a source. The main difference between the MSA and this project is the use of bidirectional transmission. The necessary diplexer introduces a loss, and so the Rx sensitivity needs adjustment. The Tx and Rx wavelengths need to be related to the -D and -U PMD variants (as the wavelengths are reversed between -D and -U). The intention is to follow the same wavelength assignments as has been agreed in BR10 and BR20. There seemed to be general agreement to proceed with these values, and further contributions will continue to refine them.

Discussions, straw-polls, other motions

Future meeting plan

The plans for our next meetings were discussed. The January 22-25 interim will be in St. Petersburg, Florida. Our group will meet on Monday 1/22. A proposed telecon is February 20 - the need for this meeting will be confirmed in the Jan meeting. The March 11-14 plenary will be in Denver, Colorado. Our group will meet Monday afternoon and Tuesday morning.

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

Motion 4

Move to adjourn the meeting.

M: Ray Nering S: Hanhyub Lee

Motion passes by voice without opposition.

09:20 (GMT-10) Meeting adjourned

Attendees (17)

<u>Name</u>	<u>Affiliation</u>	<u>12/12/2023</u>
Andy Shen	Futurewei	<u>X</u>
Craig Pasek	Cisco	<u>X</u>
Earnest Muhigana	Lumentum	<u>X</u>
Frank Effenberger	Futurewei	<u>X</u>
Guangcan Mi	Huawei	<u>X</u>
Hanhyub Lee	ETRI	<u>X</u>
John Johnson	Broadcom	<u>X</u>
Kenneth Jackson	Sumitomo	<u>X</u>
Kumi Omiri	NEC	<u>X</u>
Limin Geng	Huawei	<u>X</u>
Piers Dawe	Nvidia	<u>X</u>
Ray Nering	Cisco	<u>X</u>
Sisi Tan	Huawei	<u>X</u>
Takuya Kanai	NTT Innovative Devices	<u>X</u>
Tomoo Takahara	Fujitsu	<u>X</u>
Yuanqiu Luo	Futurewei	<u>X</u>
Yuefeng Cai	Huawei	<u>X</u>