

# Meeting Minutes

*Group: IEEE 802.3dk greater than 50G bidirectional optical access PHYs task force meeting*

*Location: Online*

*Date: Feb 14, 2023*

## Opening

9:00 AM (GMT-5) The meeting was called to order by Yuanqiu Luo, chair. Frank Effenberger volunteered to be the Recording Secretary.

### Motion 1

- Move to approve the agenda, located at:
- [https://grouper.ieee.org/groups/802/3/dk/public/2302/8023dk\\_2302\\_Task\\_Force\\_agenda.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2302/8023dk_2302_Task_Force_agenda.pdf)
- M: John Johnson S: Frank Effenberger
- Motion result: Approved by voice without opposition

### Motion 2

- Move to approve the minutes from January 2023, located at:
- [https://grouper.ieee.org/groups/802/3/dk/public/2301/2301\\_8023dk\\_unapproved\\_minutes.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2301/2301_8023dk_unapproved_minutes.pdf)
- M: Guangcan Mi S: John Johnson
- Motion result: Approved by voice without opposition

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

9:11 AM The task force chair made a call for patents; no response was made.

9:15 AM 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 February meeting were to discuss contributions and identify baseline candidates.

## Task Force Contributions

**Presentation:** Longer distance solutions for BiDi objectives, **Frank Effenberger, Futurewei**  
[https://grouper.ieee.org/groups/802/3/dk/public/2302/3dk\\_Effenberger\\_2302\\_1.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2302/3dk_Effenberger_2302_1.pdf)

This presentation considered the possibility of using 50 Gb/s per channel for the longer reaches. Eight channels will be needed. The 800 GHz spaced “LAN WDM” plan is a strong candidate. Four wave mixing might be an issue, but there is a wavelength plan that can avoid it.

The popularity of 2 wavelength channel modules was explored. There was some interest for using 4x25G for the 40 km 100G PMD; however, this may raise other issues such as power. No decisions were made, and at this stage we are just collecting all the options which can then be analyzed.

It was pointed out that there are efforts in 802.3df/dj to consider the real-world fiber dispersion. This would reduce the zero dispersion range by perhaps 50%, and this can have major impact on the limits on 100 Gb/s. There was no doubt that if single channel is possible, then that is very desirable.

**Presentation:** ITU-T G.9806AM3 update; **Jun Shan Wey**, VZ; Hirotaka Nakamura, NTT; Derek Nasset, HW; John Johnson, BCM; Takuya Kanai, NTT; Fabrice Bourgart; Orange

[https://grouper.ieee.org/groups/802/3/dk/public/2302/3dk\\_Wey\\_2302\\_1.pdf](https://grouper.ieee.org/groups/802/3/dk/public/2302/3dk_Wey_2302_1.pdf)

This gave a readout of the progress on ITU-T G.9806 Am3. The objective of this amendment is 100 Gb/s bidirectional links. The amendment is planned for consent in April 2023, and the focus of that document will be only class S (class B- will be for the next meeting in November 2023). The optical parameter table was presented (this is from the ad-hoc). The authors will update the reference links of IEEE and ITU-T documents in the r1 version.

### Discussions, straw-polls, other motions

Straw poll #1: I support specification of 100 Gb/s per wavelength for 10 km and 20 km objectives (1304.6 and 1309.1 nm). (17 attendees)

Y: 13 N: 0 Need more info: 0

### Future meeting plan

The plan for our next meetings were discussed.

The March meeting in Atlanta is tentatively scheduled for Monday (3/13) afternoon and Tuesday (3/14) morning. We will try to coordinate with .3df/j to have the logic topics done at those times, so reduce the time conflict with our project.

The May meeting is proposed to be a single day: May 15.

The July meeting will be in Berlin

### Motion 3

- Move to adjourn the meeting.
- Procedural (>50%)
- M: Frank Effenberger S: Jun Shan Wey
- Results Y: N: A:
- Motion passes by voice without opposition

10:30 AM (GMT-5) Meeting adjourned

## Attendees (19)

Name	Affiliation	2/14/2023
Abbas Alwishah	Molex	X
Andy Shen	Futurewei	X
Antonio Tartaglia	Ericsson	X
Craig Pasek	Cisco	X
David Law	HPE	X
Frank Effenberger	Futurewei	X
Guangcan Mi	Huawei	X

Han Hyub Lee	ETRI	<u>X</u>
Jeffrey Maki	Juniper	<u>X</u>
John Johnson	Broadcom	<u>X</u>
Jun Shan Wey	Verizon	<u>X</u>
Kumi Omori	NEC	<u>X</u>
Limin Geng	Huawei	<u>X</u>
Patrick Dumais	Huawei	<u>X</u>
Piers Dawe	Nvidia	<u>X</u>
Ray Nering	Cisco	<u>X</u>
Uwe Schmiade	Nokia	<u>X</u>
Yuanqiu Luo	Futurewei	<u>X</u>
Yuefeng Cai	Huawei	<u>X</u>