

Meeting Minutes

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

Location: Online

Date: April 4, 2023

Opening

9:00 AM (EDT) The meeting was called to order by Yuanqiu Luo, TF chair.

The meeting minutes were prepared by Frank Effenberger.

Motion 1

- Move to approve the agenda, located at:
https://www.ieee802.org/3/dk/public/2304/8023dk_2304_Task_Force_agenda.pdf
- M: Tao Gui S: Ray Nering
- Motion result: Approved by voice without opposition

Motion 2

- Move to approve the minutes from March 2023, located at:
https://www.ieee802.org/3/dk/public/2303/2303_8023dk_unapproved_minutes.pdf
- M: Limin Geng S: Tao Gui
- 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.

9:10 AM The task force chair made a call for patents; no response was made.

9:13 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 April meeting were to discuss contributions on wavelength plan.

Task Force Contributions

Presentation: 100G BiDi wavelength plan discussion, Yuanqiu Luo, Futurewei

https://www.ieee802.org/3/dk/public/2304/3dk_Luo_2304_1.pdf

This presentation summarized wavelength plan presentations in the last three meetings. There were 9 presentations contributed by members. Two wavelength plans were discussed: 800 GHz LAN WDM grid and CWDM. It encouraged members to reach initial consensus on the BiDi wavelength plan selection.

Presentation: Design choices for 100 Gb/s, Frank Effenberger, Futurewei

https://www.ieee802.org/3/dk/public/2304/3dk_Effenberger_2304_1.pdf

This discussed the Su (0-10 dB) and SI (5-15 dB) loss budgets proposed in the last meeting. It mapped them to BR10 and BR20, respectively. It also compared the 800 GHz and CWDM wavelength plans. The suggestion included selecting 800 GHz grid wavelengths for BR20, considering CWDM for BR10, and more study is needed for BR40. There was a long discussion among the attendees. Typical questions were: what is the relative cost saving from CWDM? Is BR10 the main market of 100G BiDi? If BR10 and BR20 share the same wavelength plan, how to handle the situation when a strong (BR20) laser accidentally plugs into a BR10 link? Do we need to include BR40 and 200G into consideration?

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). (16 attendees)

Y: 7 N: 1 Need more info: 5

The group further discussed the items which can break the barrier in wavelength selection. Members who need more information would hear more input on form factor impact, 800 GHz and CWDM relative cost comparison (including filter design difference), unified wavelength plans for all three distances (10/20/40 km), including both rate (100G and 200G) into wavelength selection. It called for presentations on these topics in the May 2 teleconference.

Future meeting plan

The plan for our next meetings were discussed.

The May teleconference is on May 2, 9:00-11:00 EDT.

The 802.3 interim meeting is on May 15-18. P802.3dk TF will meet on Monday May 15, 8:00-18:00.

The July meeting will be in Berlin.

Motion 3

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

10:26 AM (EDT) Meeting adjourned

Attendees (23)

<u>Name</u>	<u>Affiliation</u>	<u>4/4/2023</u>
Abbas Alwishah	Molex	<u>X</u>
Andy Shen	Futurewei	<u>X</u>
Chendi Jiang	Huawei	<u>X</u>
Craig Pasek	Cisco	<u>X</u>
Ed Ulrichs	Intel	<u>X</u>
Fabio Bottoni	Cisco	<u>X</u>
Frank Effenberger	Futurewei	<u>X</u>
Guangcan Mi	Huawei	<u>X</u>
Hideki Isono	Fujitsu Optical Components	<u>X</u>
Hiroataka Nakamura	NTT	<u>X</u>
John Johnson	Broadcom	<u>X</u>
Kumi Omori	NEC	<u>X</u>
Limin Geng	Huawei	<u>X</u>

Ning Cheng	Innolight	<u>X</u>
Peter Stassar	Huawei	<u>X</u>
Piers Dawe	Nvidia	<u>X</u>
Ray Nering	Cisco	<u>X</u>
Tao Gui	Huawei	<u>X</u>
Tomoo Takahara	Fujitsu	<u>X</u>
Van Phan	Juniper	<u>X</u>
Xiang Liu	Huawei	<u>X</u>
Yuanqiu Luo	Futurewei	<u>X</u>
Yuefeng Cai	Huawei	<u>X</u>