Confirmed Meeting Minutes:

IEEE P802.3dh Multi-Gigabit Automotive Ethernet over Plastic Optical Fiber Task Force

Plenary Meeting (Hybrid)

November 16th, 2022

Bangkok, Thailand

Prepared by Kazuya Takayama

Wednesday, November 16th, 2022, 08:03

IEEE P802.3dh Multi-Gigabit Automotive Ethernet over Plastic Optical Fiber Task Force meeting convened by Yuji Watanabe, Task Force Chair.

Attendance is listed in Appendix A

Administrative Matters:

Mr. Watanabe called the meeting to order.

Mr. Watanabe displayed the agenda in Agenda_dh_01_2022_11_16.pdf

Mr. Watanabe reviewed meeting agenda and asked any correction or modification needed.

No further modification/correction was asked.

Agenda is approved.

Mr. Takayama reviewed meeting minutes for November 2nd ad hoc meeting.

(P802d3dh_minutes_20221102_w_attendee.pdf).

Mr. Watanabe asked any correction or modification needed.

No further modification/correction was asked.

Meeting minutes for November 2nd ad hoc is approved.

Mr. Watanabe reviewed Task Force Decorum and asked if anyone from the press was present.

None responded.

Mr. Watanabe reviewed In-Person Decorum and Teleconference Decorum.

Mr. Watanabe reviewed IEEE 802 Hybrid Meeting Practices.

Mr. Watanabe reviewed the Goas for the meeting and Big ticket items:

Goals; 1. Technical feasibility of GI-POF link, 2. Adopt timeline

Big ticket items: Make consensus on PCS/PMA and operation wavelength

Mr. Watanabe reviewed the access to the reflector and website, Task Force Private Area, and ground rules for the meeting.

Attendance:

Mr. Watanabe noted that the attendance for this meeting was being recorded in IMAT and provided a link to IMAT training.

IEEE Governance:

Mr. Watanabe reviewed the IEEE structure for standards development and the bylaws and rules by which the Task Force is governed.

IEEE Patent Policy, IEEE-SA copyright Policy:

Mr. Watanabe read aloud the patent policy slides (agenda pdf pages 16-17).
Mr. Watanabe read aloud other guidelines and patent related information (agenda pdf pages 18-19).
Mr. Watanabe read aloud the IEEE-SA copyright slides (agenda pdf pages 21-22).
Mr. Watanabe read aloud the IEEE-SA participation slides (agenda pages 23-25).
At 08:25, Mr. Watanabe made the call for any potentially essential patents.
None responded.

Liaisons and Communications:

- OPEN Alliance TC7 requests to create a liaison relationship between TC7 and 802.3cz/802.3dh.
- Mr. Luis Manuel Torres was appointed as a liaison officer in 802.3cz. If no one has objection in 802.3dh, WG chair will appoint him as a liaison officer, and a motion to approve liaison letter draft will be moved at closing plenary.

Mr. Grow showed the liaison letter draft to explain its contents.
No objection was raised to the draft and Mr. Watanabe asked Mr. Grow to bring this to Closing Plenary for approval.

Action Items:

None

Project Status:

Mr. Watanabe reviewed the IEEE 802.3 Standards process and where the Task Force was in the process and the process by which we will develop the standard.
Mr. Watanabe showed the location of the approved project documents for the Task Force and reviewed the objectives for the Task Force.
Mr. Watanabe showed the proposed timeline for Task Force.
Mr. Watanabe propose shifting the current proposed timeline by six months.
Mr. Perez-Aranda made a comment that GI-POF bandwidth information is needed for operating wavelengths to be discussed.
Mr. Watanabe reviewed the Work Ahead:

- Description of the channel, GI POF A4j, including dimensions, optical parameters

- Demonstration of technical feasibility of 2.5 – 25G links

Mr. Watanabe showed list of presentations to be presented in the meeting.
Mr. Watanabe appointed Mr. Takayama to take chair position temporary in order to make presentation by himself.
Mr. Takayama asked if any objection to take chair position. **No objection was made.**
Mr. Takayama then moved to the presentations for the meeting.

Presentations:

Title: ***Update of IEC60793-2-40 A4j***
(watanabe_3dh_02_2211.pdf)
Presenter: **Yuji Watanabe, AGC**
This contribution provided the proposal information for early revision of IEC60793-2-40 ed.5., which Mr. Watanabe made the proposal in IEC TC86/SC86A Plenary meeting.
Several questions and comments were made. Mr. Watanabe provided answers.

Mr. Takayama return the chair position to Mr. Watanabe.
Mr. Murty asked presentation order change. **No Objections.**

Title: ***850 and 910 nm Transmission on GI POF***
(murty_3dh_02_2211.pdf)
Presenter: **Ramana Murty, Broadcom**
This contribution provided the examination result of fiber transmission at 850 and 910 nm on a sample of A4i GI-POF.
Several questions and comments were made. Mr. Murty provided answers.

15min. break. 9:35-9:50AM

Title: ***Center Wavelength Specification for Automotive Links***
(murty_3dh_01a_2211.pdf)
Presenter: **Ramana Murty, Broadcom**
This contribution provided the reference information of different wavelength to meet the requirements of automotive links.
There are arguments about the statement refer to OMEGA TF meeting on 15th.
Mr. Torres formally object the presentation contents in the page number 3 of 9, the second bullet
“Following were discussed and settled: 1. Methodology of reliability calculations presented in murty_3dh_adhoc_01a_221019.pdf was confirmed”
Several comments were made including other bullet as well.

Mr. Watanabe asked Mr. Murty to revise the content.

Mr. Murty revised the content to

Discussion on center wavelength in 802.3cz was triggered by a comment R1-67 from David Law:

- There was majority support from individuals affiliated with a broad range of VCSEL suppliers and OEMs for a wide band (840 – 990 nm) for center wavelength. A wide band for wavelength was not adopted because the 75% threshold was not met.
- Following were discussed:
  1. Methodology of reliability calculations presented in murty_3dh_adhoc_01a_221019.pdf was confirmed in my understanding
  2. Test conformance is between supplier and customer

3

The revised presentation file is posted to the Task Force web page.

Mr. Murty asked Straw Poll:

I support the following specification for “center wavelength” range:

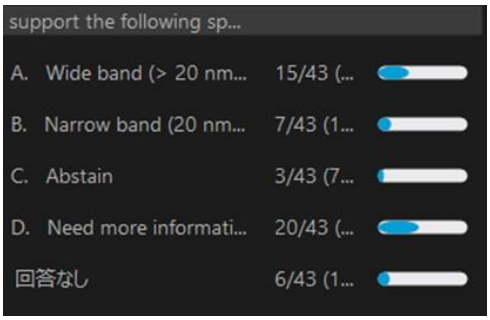
1. Wide band (> 20 nm): Multiple nominal wavelengths, e.g., 840 – 920 nm
2. Narrow band (20 nm): Single nominal wavelength, e.g., 840 – 860 nm
3. Abstain
4. Need more information

[Chicago rules]

Results

1. 15
2. 7
3. 3
4. 20

No answer: 6



Title: ***Timeline proposal***

(watanabe_3dh_01_2211.pdf)

Presenter: **Yuji Watanabe, AGC**

Mr. Watanabe proposed shifting the timeline by six months.

Several questions and comments were made.

Mr. Watanabe proposed timeline to be open until we have more information, such as bandwidth data, to create draft baseline texts.

Mr. Grow suggested that D1 is acceptable if it is not technically completed, but D2 should be technically completed..

Future Meetings:

January 2023 [Interim]

- January 16 -19, 2023, Virtual only

March 2023 [Plenary]

- March 13 -16, 2023, Hilton Atlanta, Atlanta GA

May 2023 [Interim]

- May 15 -18, 2023, venue(TBD)

July 2023 [Plenary]

- July 10 -13, 2023, Estrel Berlin, Berlin, Germany

TF meeting scheduled on Nov. 17th was cancelled.

Ad hoc meeting is scheduled biweekly. The next meeting is scheduled on November 30th.

Mr. Watanabe asked any other business to conduct or discussed. **None responded.**

Motion to adjourn: Moved by Mr. Torres, Seconded by Mr. Murty. **No objection was made.**

The Task Force Plenary meeting was adjourned at 11:38AM.

(Intentionally left blank below)

Appendix A: Attendees at the IEEE P802.3dh Task Force Plenary meeting, November 16th, 2022.

Name	**Affiliation**
Abbott, John	Corning Incorporated
Akin, Sami	Volkswagen Ag
Araki, Nobuyasu	Yazaki Corporation
Choudhury, Mabud	OFS
Donthu, Suresh	Corning Incorporated
Ferretti, Vincent	Corning Incorporated
Feyh, German	Broadcom Corporation
Gomez, Chisato	Nitto, Inc. (New Business Development Div.)
Goto, Hideki	Toyota Motor Corporation
Grow, Robert	RMG Consulting, KDPOF
Hayashi, Takehiro	HAT Lab., Inc.
Hyakutake, Yasuhiro	Adamant Namiki Precision Jewel Co., Ltd.
Isono, Hideki	Fujitsu Optical Components Limited
Jackson, Kenneth	Sumitomo Electric Industries, LTD
Kadry, Haysam	Molex Incorporated
Kagami, Manabu	Nagoya Institute of Technology (NITech)
Kawahara, Keisuke	Furukawa Electric
Kikuta, Tomohiro	Adamant Namiki Precision Jewel Co., Ltd.
Mahlich, Matthias	Robert Bosch GmbH
Martino, Kjersti	Inneos
Murty, Ramana	Broadcom Corporation
Perez De Aranda Alonso, Ruben	KDPOF
Reinhard, Michael	SEI Automotive Europe GmbH
Sawano, Hiroshi	OITDA
Shiino, Masato	FURUKAWA ELECTRIC
Souvignier, Tom	Broadcom Corporation
Sun, Wensheng	Marvell Semiconductor, Inc.
Takahashi, Satoshi	Self Employed
Takahashi, Tadashi	Nitto Denko Corporation
Takayama, Kazuya	Nitto Denko Corporation
Torres, Luis	Knowledge Development for Plastic Optical Fiber
Tsujita, Yuichi	Nitto, Inc.; New Business Development Division
Watanabe, Yuji	AGC
Wienckowski, Natalie	General Motors Company

Zhang, Tingting	Huawei Technologies Co., Ltd
Alwishah, Abbas	Molex Incorporated
Chang, Jae-yong	Keysight
Fukushima, Takahito	Dexerials Corporation
Hozeska, Charles	Cernitin Solutions
Kanno, Atsushi	Nagoya Institute of Technology (NITech)
Klein, Christian	Robert Bosch GmbH
Ninomiya, Tiger	Senko Advanced Components
Patel, Harsh	Amphenol CS
Peters, Kevin	Inneos

Total: 44 attendees