Confirmed Meeting Minutes:
IEEE P802.3dh Multi-Gigabit Automotive Ethernet over Plastic Optical Fiber Task Force
ad hoc Meeting (Teleconference)
November 1st, 2023
Prepared by Kazuya Takayama

Wednesday, November 1st, 2023, 14:03 UTC

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 reviewed General Decorum and asked if anyone from the press was present.

None responded at 14:05 UTC.

Mr. Watanabe reviewed Teleconference Decorum.

Mr. Watanabe displayed the agenda in Agenda_dh_01_2023_11_01.pdf

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

No further modification/correction was asked.

No objection was made.

Agenda is approved by unanimous consent at 14:06 UTC.

Mr. Watanabe reviewed meeting minutes for October 18th Interim meeting.

(P802d3dh_minutes_20231018_w_attendee.pdf).

Mr. Watanabe asked any correction or modification needed.

One correction was requested from Mr. Pérez-Aranda.

Goals for the meeting:

- Discussion towards revision of timeline

Big ticket items:

- Clear action item list to create Draft 1.0
- Methodology for frequency response
- Effect of in-line connection
- Frequency response under environmental and in-line connection

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

rules for the meeting.

IEEE Governance:

Mr. Watanabe briefly 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 briefly reviewed the patent policy slides (agenda: p.13 - p.14).
Mr. Watanabe briefly reviewed other guidelines and patent related information (agenda: p.15 - p.16).
Mr. Watanabe briefly reviewed the IEEE-SA copyright policy slides (agenda: p.18 – p.19).
Mr. Watanabe briefly reviewed the IEEE-SA participation slides (agenda: p.20 – p.22).

Project Status:

Mr. Watanabe briefly 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.

Liaisons and Communications:

No letters for this meeting.

Mr. Watanabe showed the location of the approved project documents for the Task Force and reviewed the objectives for the Task Force.

Presentations

Presentation #1

Title: ***Measurement reproductivity in frequency response measurement of GI-POF***
(Hirose_3dh_01_2023_11_01.pdf)
Presenter: **Takeshi Hirose, AGC Inc.**
This contribution provided information about the measurement variation of frequency response of GI-POF presented in the last ad hoc meeting. Averaged data and raw data were compared side-by-side.
Mr. Pérez-Aranda commented:

- Standard deviation in frequency response increased when measurement temperature increase.
- Reference transmitter and receiver are inside of the chamber or outside of the chamber?
  - Mr. Hirose answered those are outside of the chamber.
- Standard deviation is comparable to average value. Need to debug measurement setup.
- It is very difficult to make any assessment from these data.

Mr. Torres commented:

- The test setup is not valid. My concern is about timeline.
- For time to debug, how long will it take?

- Mr. Hirose answered 1 to 2 months.

Mr. Hozeska asked:

- Is the extruded POF annealed?
  - Mr. Hirose answered that it was not annealed with optimum condition.
- Below Tg? How high is the Tg?
  - Mr. Watanabe answered that it is more than 105 degC.

Action Items:

Mr. Watanabe showed To Do List (P802_3dh_to-do_20231101.xlsx).

Mr. Pérez-Aranda commented:

- Measurement method is not valid. In November meeting, the new test method, such as frequency response measurement, and the launching condition are to be discussed.

Mr. Watanabe commented that he asked expert, experienced in MOST connector, to make presentation for butt coupling in the next meeting.

Timeline:

Mr. Watanabe showed the proposed timeline for Task Force.

Mr. Watanabe commented that once the worst case of frequency response is estimated, draft creation does not take long time because baseline text is based on 802.3cz (clause 166).

Future Meetings:

November 2023 [Plenary]

- November 13 -16, 2023, Honolulu, HI

January 2024 [Interim]

- January 22 -25, 2024, St. Petersburg, FL

March 2024 [Plenary]

- March 11 -14, 2024, Denver, Colorado

May 2024 [Interim]

- May 13 -16, 2024, Venue TBD

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

The Task Force Interim meeting was adjourned at 14:55 UTC

Appendix A: Attendees at the IEEE P802.3dh Task Force Ad Hoc meeting, November 1st, 2023.

Name	**Affiliation**
Carlson, Steve	HSD, Robert Bosch GmbH, Ethernovia
Chang, Jae-yong	Keysight
Ferretti, Vincent	Corning Incorporated
Glanzner, Martin	SEI Automotive Europe GmbH
Haasz, Jodi	IEEE SA
Hirase, Hidenari	AGC
Hirose, Takeshi	AGC Inc.
Hozeska, Charles	Cernitin Solutions
Kagami, Manabu	Nagoya Institute of Technology (NITech)
Kikuta, Tomohiro	Orbray Co., Ltd.
Kurashima, Kazuyoshi	AGC
Lambert, Angela	Corning Incorporated
Martino, Kjersti	Inneos
Murty, Ramana	Broadcom Corporation
Nakayama, Daiki	Sumitomo Electric Industries, LTD
Niihara, Yoshihiro	Fujikura Ltd.
Oi, Shigehiro	AGC
Pardo, Carlos	KDPOF
Perez De Aranda Alonso, Ruben	KDPOF
Taguchi, Noritaka	YAZAKI
Takahashi, Satoshi	Self Employed
Takayama, Kazuya	Nitto Denko Corporation
Torres, Luis	Knowledge Development for Plastic Optical Fiber
Watanabe, Yuji	AGC

Total: 24 attendees