

Confirmed Meeting Minutes:

IEEE P802.3dh Multi-Gigabit Automotive Ethernet over Plastic Optical Fiber Task Force  
ad hoc Meeting (Teleconference)

October 18<sup>th</sup>, 2023

Prepared by Kazuya Takayama

**Wednesday, October 18<sup>th</sup>, 2023, 14:01 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 14:02 UTC**

Mr. Watanabe reviewed Teleconference Decorum.

Mr. Watanabe displayed the agenda in [Agenda dh 01 2023 10 18.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 at 14:03 UTC by unanimous consent.**

Mr. Takayama reviewed meeting minutes for September 13<sup>th</sup> Interim meeting.

([P802d3dh\\_minutes\\_20230927\\_w\\_attendee.pdf](#)).

Mr. Watanabe asked any correction or modification needed.

No further correction or modification was asked.

**Meeting minutes for September 27<sup>th</sup> ad hoc meeting was approved at 14:05 UTC**

**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 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).

**At 14:07 UTC, Mr. Watanabe made the call for potentially essential patents.**

**None responded.**

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: ***Update on the temperature dependence of the frequency response at 850 and 980 nm for automotive grade GI-POF***

([Hirose 3dh 01b 2023 10 18.pdf](#))

Presenter: **Takeshi Hirose, AGC Inc.**

This contribution provided the frequency response of automotive grade GI-POF at 850 nm and 980 nm. Temperature dependencies were presented as well.

Mr. Pérez-Aranda asked several questions, such as mode controller, connector location (inside the test chamber or not), drift of frequency response after temperature cycles. Mr. Hirose provided answers.

Mr. Pérez-Aranda commented:

- EF launch cannot provide complete information.
- Frequency response changed by temperature variation. It means material response changed.

- OM3 response is almost null during temperature cycle. Frequency response is better to be measured intermediate. And, please check how response change.
- Reflection (at the connection) must be taken care of by APC.

Mr. Torres asked how the data were averaged and asked about deviation. Mr. Hirose answered it can be shown in the next meeting.

## **Presentation #2**

Title: ***Proposal of launching condition for frequency response measurement with GI-POF***  
([Hirose\\_3dh\\_02b\\_2023\\_10\\_18.pdf](#))

Presenter: **Takeshi Hirose, AGC Inc.**

This contribution proposed the launch condition for the bandwidth measurement.

Mr. Pérez-Aranda commented:

- If the DMD measurement cannot be used, new methodology must be developed.
- New figure of merit needs to be defined to demonstrate completeness.

Mr. Torres commented:

- Both of new launch condition and frequency response measurement method needs to be developed. For 802.3ae, it took 2 years by several vendors, experts for round robin.
- Concerned that this group's capability and time.
- Maximum loss value needs to be considered.

## **Action Items:**

Mr. Watanabe showed To Do List ([P802\\_3dh\\_to-do\\_20230927.xlsx](#)).

Mr. Pérez-Aranda commented:

- Before round robin, launch condition needs to be determined.
- Methodology needs to be agreed for interoperability If the DMD measurement cannot be used, new methodology must be developed.

## **Timeline:**

Mr. Watanabe showed the proposed timeline for Task Force.

Mr. Torres commented:

- New timeline consider new methodology in IEC. Need to harmonize. There is no clean image of channel, *i.e.* complete picture of channel specification. Generation of first draft will be delay.

## **Future Meetings:**

ad-hoc meeting is scheduled on November 1<sup>st</sup> 14:00 UTC.

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 ad hoc meeting was adjourned at 15:33 UTC**

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Appendix A: Attendees at the IEEE P802.3dh Task Force ad hoc meeting, October 18<sup>th</sup>, 2023.

<b>Name</b>	<b>Affiliation</b>
Deandrea, John	Coherent
Feiter, Gangolf	CSC, ISO TC22/SC31/WG2 chair
Gonzalez, Dalisa	IEEE SA
Goto, Hideki	Toyota Motor Corporation
Haasz, Jodi	IEEE SA
Hirose, Takeshi	AGC Inc.
Hyakutake, Yasuhiro	Orbray Co., Ltd.
Kagami, Manabu	Nagoya Institute of Technology (NITech)
Kikuta, Tomohiro	Orbray Co., Ltd.
Kurashima, Kazuyoshi	AGC
Lambert, Angela	Corning Incorporated
Law, David	Hewlett Packard Enterprise
Mahlich, Matthias	Robert Bosch GmbH
Martino, Kjersti	Inneos
Nakayama, Daiki	Sumitomo Electric Industries, LTD
Niihara, Yoshihiro	Fujikura Ltd.
Oi, Shigehiro	AGC
Perez De Aranda Alonso, Ruben	KDPOF
Shiino, Masato	FURUKAWA ELECTRIC
Taguchi, Noritaka	YAZAKI
Takahashi, Satoshi	Self Employed
Takayama, Kazuya	Nitto Denko Corporation
Torres, Luis	Knowledge Development for Plastic Optical Fiber
Tsujita, Yuichi	Nitto, Inc.; New Business Development Division
Watanabe, Yuji	AGC

Total: 25 attendees