

Confirmed Meeting Minutes:

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

Ad Hoc Meeting (Telephonic)

October 19, 2022

Prepared by Kazuya Takayama

Wednesday, October 19<sup>th</sup>, 2022, 14:02 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 displayed the agenda in [Agenda\\_dh\\_01\\_2022\\_10\\_19.pdf](#)

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

No further modification/correction was asked.

**Agenda is approved.**

Mr. Watanabe reviewed Task Force decorum and asked if anyone from the press was present. None responded.

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

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

**IEEE Patent Policy:**

Mr. Watanabe read aloud the patent policy slides (agenda pdf pages 10-11).

Mr. Watanabe read aloud other guidelines and patent related information (agenda pdf pages 12-13).

Mr. Watanabe read aloud the IEEE-SA copyright slides (agenda pdf pages 15-16).

Mr. Watanabe read aloud the IEEE-SA participation slides, (agenda pages 17-19).

**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 reviewed the Liaisons and Communications and the Action Items.

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 announced the future task force meetings.

Mr. Watanabe reviewed the Work Ahead

Mr. Watanabe showed list of presentations to be presented in the meeting.

Mr. Takayama reviewed meeting minutes for October 5<sup>th</sup> ad hoc meeting

([P802d3dh\\_minutes\\_20221005\\_w\\_attendee.pdf](#)).

Mr. Watanabe asked any correction or modification needed.

No modification/correction was asked.

**Meeting minutes for October 5<sup>th</sup> ad hoc meeting is approved.**

At 14:18 UTC, Mr. Watanabe made the call for any potentially essential patents.

**None responded.**

Mr. Watanabe then moved to the presentations for the meeting.

**Liaisons and Communications:**

None received.

**Action Items:**

None.

**Work Ahead:**

Work towards a baseline for automotive GI POF links

- PMA, PCS
- Description of the channel, GI POF A4j, including dimensions, optical parameters
- Demonstration of technical feasibility of 2.5 – 25G links.

**Presentations:**

Title: *GI-POF Link and VCSEL Reliability Calculations*

([murty\\_3dh\\_adhoc\\_01b\\_221019.pdf](#))

Presenter: **Ramana Murty, Broadcom Inc.**

This contribution reported 850nm VCSELs reliability in terms of the time to 1% failure for wear out, random failure rate and low hazard rate. Several questions and comments were made. Mr. Murty answered.

Title: **850nm VCSELS Log-normal shape in reliability analysis**

([perezaranda\\_3dh\\_02\\_2210\\_vcsel\\_rel\\_shape.pdf](#))

Presenter: **Rubén Pérez-Aranda, KDPOF**

This contribution reported VCSEL reliability assessment method from mathematical point of view to meet automotive reliability requirement. Several questions and comments were made. Mr. Pérez-Aranda answered.

Mr. Watanabe asked Mr. Pérez-Aranda to present his second contribution slide (Title: 850nm VCSELS Reliability analysis) in the next ad hoc meeting due to the shortage of time.

**Future Meetings:**

Ad hoc meeting will be held on Nov. 2<sup>nd</sup>. Starting time will be discussed in the reflector due to the end of day light saving time.

November Plenary (Hybrid), Nov. 14<sup>th</sup> – 17<sup>th</sup> Bangkok, Thailand

The Task Force ad hoc meeting was adjourned at 16:00 UTC.

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Appendix A: Attendees at the IEEE P802.3dh Task Force ad hoc meeting, October 19<sup>th</sup>, 2022.

<b>Name</b>	<b>Affiliation</b>
Abbott, John	Corning Incorporated
Ferretti, Vincent	Corning Incorporated
Goto, Hideki	Toyota Motor Corporation
Grow, Robert	RMG Consulting, KDPOF
Harshbarger, Douglas	Corning Incorporated
Hayashi, Takehiro	HAT Lab., Inc. / independent
Hirase, Hidenari	AGC
Hyakutake, Yasuhiro	Adamant Namiki Precision Jewel Co., Ltd.
Isono, Hideki	Fujitsu Optical Components Limited
Jackson, Kenneth	Sumitomo Electric Industries, LTD
Kagami, Manabu	Nagoya Institute of Technology (NITech)
Kawahara, Keisuke	Furukawa Electric
Kikuta, Tomohiro	Adamant Namiki Precision Jewel Co., Ltd.
King, Roger	TRUMPF Photonic Components GmbH
Malicoat, David	Independent/SENKO
Martino, Kjersti	Inneos
Murty, Ramana	Broadcom Corporation
Perez De Aranda Alonso, Ruben	KDPOF
Shiino, Masato	FURUKAWA ELECTRIC
Takahashi, Satoshi	Self Employed/POF Promotion
Takahashi, Tadashi	Nitto Denko Corporation
Takayama, Kazuya	Nitto Denko Corporation
Torres, Luis	Knowledge Development for Plastic Optical Fiber
Watanabe, Yuji	AGC
Feiter, Gangolf	CSC, ISO TC22/SC31/WG2 chair
Haasz, Jodi	IEEE SA
Hoser, Mirko	Coherent
Lambert, Angie	Corning Incorporated
Nakayama, Daiki	Sumitomo Electric Industries, LTD
Pankert, Joseph	TRUMPF

Total: 30 members