## Minutes Multi-Gigabit Optical Automotive Ethernet (OMEGA) Task Force Ad hoc 15-22 December 2020

## Attendance list as recorded in Webex participant list

Anno Michikazu Yazaki Yazaki Yazaki X Karaki Nobuyasu Yazaki Yazaki X X Barbero Fernando KDPOF KDPOF X X Barbero Fernando KDPOF KDPOF X X KDPOF KDPOF X X KDPOF X X X X X X X X X X X X X X X X X X X	5th Dec 2	Dec 15th	Affiliations	Employer	First Name	Last Name
Barbero Fernando KDPOF KDPOF X Bruckman Leo Huawei Huawei X Chang Jae-yong Keysight Keysight X Cuesta Emilio TE Connectivity TE Connectivity X Dittmann Markus KDPOF KDPOF X Fortusini Davide Corning Corning Corning X Fukuoka Takashi AutoNetworks AutoNetworks Technologies Ltd.; Technologies Ltd. Sumitomo Electric Industries, Ltd. Goto Hideki Toyota Motor Toyota Motor Corporation X Corporation Toyota Motor Corporation X Corporation Robert Robert M. Grow RMG Consulting, KDPOF X HIRASE Hidenari AGC AGC X Hunter Senko Advanced Senko X Components, Inc. Hyakutake Yasuhiro Adamant Namiki Precision Jewel X Isono Hideki FOC FOC X KAGAMI Manabu NI Tech NI Tech X Kamino John OFS KAZuya Takayama Nitto Denko Corp. Nitto Denko Corp. X KObayashi Shigeru AIO Core AIO Core KOdodo Taiji MegaChips MegaChips X Malicoat David Malicoat Nerver Sonko Advanced Components X David Malicoat Nerver Sonko Modor Corp. X Perez-Aranda Rubén KDPOF X Precision Jewel X Precision Jewel X Precision Jewel X KDPOF SONS RAJORO Taiji MegaChips MegaChips X Precision Jewel X Precision Jewel X Precision Jewel X Robayashi Shigeru AIO Core AIO Core Rondo Taiji MegaChips MegaChips X Precision Jewel X Precision Jewel X Precision Jewel X Robayashi Shigeru AIO Core AIO Core Rondo Taiji MegaChips MegaChips X Precision Jewel X Precision Jewel X Precision Jewel X Robayashi Shigeru AIO Core AIO Core Rondo Taiji MegaChips MegaChips X Precision Jewel X Precision Jewel X Robayashi Shigeru AIO Core AIO Core Rondo Carlos KDPOF KDPOF X Pardo Panduit X Pinzion Pilinio Jesús KDPOF SL Sumitomo Electric X Silvano de Sousa Johnathan Gebauer & Griller AX Sumason Steve Corning Inc. Corning Inc. Corporation X X	Х		Yazaki	Yazaki	Michikazu	Aono
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Silvano de Sousa     Johnathan     Gebauer & Griller     X       Swanson     Steve     Corning Inc.     Corning Inc.     X       Takahashi     Satoshi     POF Promotion     POF Promotion     X       Takahashi     Tadashi     Nitto Denko     Nitto Denko Corporation     X       Corporation     Nitto Denko Corporation     X	Х					
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Takahashi     Satoshi     POF Promotion     POF Promotion     X       Takahashi     Tadashi     Nitto Denko Corporation     X       Corporation     X	Х	_			1	
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	Х	+		Nitto Denko	<b>+</b>	
	Х	×	KDPOF	•	Luisma	Torres
Ueno Yuto Sumitomo Sumitomo X	X					
WATANABE Yuji AGC AGC X	X					
Wienckowski Natalie General Motors General Motors X	X				-	
Xing Xu Huawei Huawei X	X					
Yurtin John APTIV APTIV X	X					-
Zou Congshi Huawei Huawei	X	+ ^				

## Tuesday, 15th December 2020, 12:00 (noon) UTC

The meeting was called to order at approximately 12:12 UTC Tuesday 15th December 2020 Chaired by Robert Grow, IEEE P802.3cz Task Force Chair.

Mr. Grow presented *Agenda and General Information* (<a href="https://www.ieee802.org/3/cz/public/15">https://www.ieee802.org/3/cz/public/15</a> dec 2020/Agenda 3cz 01 151220.pdf). Mr. Grow presented the agenda for the meeting. The agenda was approved by unanimous consent.

Mr. Grow asked the audience if there was anybody from the press. No one responded to the call.

Mr. Grow asked the audience if there are someone that is not familiar with the IEEE general rules presentation. No one responded. Mr. Grow went through the general rules' presentation briefly.

Mr. Grow issued the call for essential patent claims. No one responded to the call. He also presented the slides on the IEEE Copyright Policy and participation guidelines

Mr. Ortiz had requested to present *Introduction to semiconductor qualification and reliability assessment* 

(https://www.ieee802.org/3/cz/public/15 dec 2020/ortiz 3cz 01 151220 reliability assesment.p df).

The presentation describes the reliability assessment for automotive semiconductors based on a Mission Profile. A Mission Profile proposal for 802.3cz was presented. Mr. Ortiz asked for feedback about the presented Mission Profile proposal to the Task Force members.

Mr. Swanson had requested to present *Proposed IEEE 802.3cz PMD, MDI and Media Baseline Text* (<a href="https://www.ieee802.org/3/cz/public/15">https://www.ieee802.org/3/cz/public/15</a> dec 2020/swanson 3cz 01 151220 AUTO MDI%20Spe cification.pdf</a>). The presentation proposes a placeholder for a PMD, MDI and media based on 0M3 glass fiber and 2 dB IL connector. Mr. Swanson ask for feedback on the number presented to the Task Force. A number of questions were asked about the presentation and Mr. Swanson provided answers.

Mr. Swanson had requested to present *Proposal for testing optical connectors* (<a href="https://www.ieee802.org/3/cz/public/15">https://www.ieee802.org/3/cz/public/15</a> dec 2020/swanson 3cz 02 151220 AUTO Connector% 20Testing.pdf</a>). The presentation proposed an automotive connector testing based on current Datacom connector standards. Mr. Swanson commented that the severity proposed probably need to be reviewed. A number of questions were asked about the presentation and Mr. Swanson provided answers.

Mr. Swanson gave an update about the Optical Components consensus building Ad Hoc meeting held outside the Task Force. 18 people attend to that meeting and Mr. Swanson presented a list with the Optical Components big tickets that are remaining.

Mr. Fukuoka had requested to present Introduction to ISO24581 (Automotive Optical

Harness standardization)

(https://www.ieee802.org/3/cz/public/15 dec 2020/fukuoka 3cz 01a 151220 ISO24581.pdf). The presentation describes the ISO TC22/SC32/WG10 work on the standardization of optical harness for 1 Gb/s Ethernet (ISO 21111-4) and higher data rates (ISO 24581). A number of questions were asked about the presentation and Mr. Fukuoka provided answers.

Mr. Pimpinella agreed to delay his presentations until the next call, and review of the To-Do list was skipped.

Mr. Grow proposed to continue this Ad Hoc meeting on 22<sup>nd</sup> December and accept additional contributions if any. Next Ad Hoc meeting is proposed to be held by 12<sup>th</sup> January, and cancel the previously arranged 29<sup>th</sup> December meeting. All proposals were accepted by unanimous consent.

The meeting was adjourned by 16:03.

The meeting was resumed 12:02 UTC Tuesday 22th December 2020. Chaired by Robert Grow, IEEE P802.3cz Task Force Chair.

Mr. Grow presented *Agenda and General Information* (<a href="https://www.ieee802.org/3/cz/public/22 dec 2020/Agenda 3cz 01a 221220.pdf">https://www.ieee802.org/3/cz/public/22 dec 2020/Agenda 3cz 01a 221220.pdf</a>). Mr. Grow presented the agenda for the meeting. The agenda was approved by unanimous consent.

Mr. Grow asked the audience if there was anybody from the press. No one responded to the call.

Mr. Grow asked the audience if there are someone that is not familiar with the IEEE general rules presentation. No one responded. Mr. Grow went through the general rules' presentation briefly.

Mr. Grow issued the call for essential patent claims. No one responded to the call. He also presented the slides on the IEEE Copyright Policy and participation guidelines

Mr. Pimpinella had requested to present Evaluation of Eye Safety Hazard for VCSEL-MMF Channels

(https://www.ieee802.org/3/cz/public/22 dec 2020/pimpinella 3cz 01 221220.pdf). The presentation describes a way to calculate the AEL and OFCS power limits for Eye Safety. A number of questions were asked about the presentation and Mr. Pimpinella provided answers.

Mr. Pérez-de-Aranda had requested to present Eye safety analysis for 802.3cz links

(https://www.ieee802.org/3/cz/public/22 dec 2020/perezaranda 3cz 01 221220 eyesafety.pdf). The presentation describes Average Optical Power measurements for different VCSELs and connector types (butt coupling and Expanded Beam Optics) to extract the worst case for Eye Safety limits. It also describes an option based in an eye safety power state to meet eye safety limits. A number of questions were asked about the presentation and Mr. Pérez-de-Aranda provided answers.

Mr. Pérez-de-Aranda had requested to present *Reliability constrained link budget assessment for 10 & 25 Gb/s* 

(https://www.ieee802.org/3/cz/public/22 dec 2020/perezaranda 3cz 02 221220 reliability linkb dget.pdf). The presentation describes different VCSELs reliability analysis for different mission profiles. The conclusion is that the bias current can be increased maintaining the same wear out reliability. The presentation also shows the impact on the link budget of this increase in the bias current for 10 and 25 Gb/s. A number of questions were asked about the presentation and Mr. Pérezde-Aranda provided answers.

Mr. Grow presented the last slides of *Agenda and General Information* regarding the future meetings. He proposed to have the next IEEE P802.3cz Task Force Ad Hoc meeting by January 12<sup>th</sup> and to convert this meeting or the next one in Task Force interim to approve possible liaisons. The proposal will be discussed in the mail reflector.

Mr. Grow also provided to the Task Force participants the user and password for the private area of the Task Force Website. The drafts, liaisons, and other documents will be stored in this area.

Mr. Torres presented the ToDo list and ask the Task Force participants to present new contributions about the remaining tasks to complete the draft. Several proposals were received and the ToDo list was updated accordingly.

Mr. Swanson commented on the specification of two different medias for the same speed. Mr. Grow commented that the Task Force objectives do not preclude this case.

Mr. Torres remembered the Task Force participants that the Draft 1.0 will be available by January  $8^{th}$ . The first round of comments is expected to be finished by the beginning of March and the comment resolution is also expected to take place during the same month.

With scheduled time for the call having expired, the meeting was adjourned at approximately 14:12 UTC.

Recording Secretary: Luisma Torres.