

Minutes  
Multi-Gigabit Optical Automotive Ethernet (OMEGA)  
Task Force Ad hoc  
27 October 2020

Attendance list as recorded in Webex participant list

<b>Name</b>	<b>Employer/Affiliation(s)</b>
Abbott, John	Corning Incorporated
Amamiya, Yasushi	Megachips
Araki, Nobuyasu	Yazaki Corporation
Barbero, Fernando	KDPOF
Boyer, Rich	Aptiv
Chang, Jae-yong	Keysight
Dittmann, Markus	KDPOF
Fukuoka, Takashi	AutoNetworks Technologies Ltd.; Sumitomo Electric Industries, Ltd.
Goto, Hideki	Toyota
Harshbarger, Douglas	Corning
Hartmann, Stephan	Siliconally GmbH
HYAKUTAKE, YASUHIRO	Adamant Namiki Precision Jewel Co., Ltd.
Kanai, Hunter	SENKO
Kikuta, Tomohiro	Adamant Namiki Precision Jewel Co., Ltd.
Koepfenderfer, Erwin	LEONI Kabel
Kondo, Taiji	Megachips
*Lee, Bernard	SENKO
*Ledentsov, Nikolay	VI Systems
Masuda, Takeo	OITDA/PETRA
Malicoat, David	Malicoat Networking Solutions; SENKO Advanced Components
Pardo, Carlos	KDPOF
Pérez De Aranda Alonso, Rubén	KDPOF
Pinzón, Plinio	KDPOF
Pimpinella, Rick	Panduit Corp.
Preis, Roland	MD Elektronik GmbH
Shigematsu, Masayuki	Sumitomo
Takahashi, Satoshi	POF Promotion
Takahashi, Tadashi	Nitto Denko Corp.
Takayama, Kazuya	Nitto Denko Corp.
*Torres, Luisma	KDPOF
Ueno, Yuto	Sumitomo
*Wienckowski, Natalie	General Motors Company
Wanatabe, Yuji	AGC
Yurtin, John	Aptiv
*Zhang, Xingxin	Huawei

\*Name and/or affiliation were clarified via WebEx Chat.

## Tuesday, 27th October 2020, 12:00 (noon) UTC

The meeting was called to order at approximately 12:11 UTC Tuesday 27th October 2020  
Chaired by Luisma Torres, IEEE P802.3cz Task Force Secretary.

Mr. Torres announced that Robert Grow, IEEE P802.3cz Task Force Chair, was having problems to connect to the Webex site. Mr. Grow asked Mr. Torres by email to chair this IEEE P802.3cz Task Force meeting.

Mr. Torres presented *Agenda and General Information* ([https://www.ieee802.org/3/cz/public/27\\_oct\\_2020/Agenda\\_3cz\\_01\\_271020.pdf](https://www.ieee802.org/3/cz/public/27_oct_2020/Agenda_3cz_01_271020.pdf)). Mr. Torres presented the agenda for the meeting. The agenda was approved by unanimous consent.

The minutes of the previous IEEE P802.3cz Task Force Ad hoc meeting were approved by unanimous consent.

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

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

Mr. Torres 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. Pérez-Aranda had requested to continue with the presentation *OMEGA 25 Gb/s Link budget analysis* ([https://www.ieee802.org/3/cz/public/27\\_oct\\_2020/perezaranda\\_3cz\\_01\\_271020\\_25G\\_link\\_budget.pdf](https://www.ieee802.org/3/cz/public/27_oct_2020/perezaranda_3cz_01_271020_25G_link_budget.pdf)) that was not finished last meeting.

The presentation describes the results of the link budget analysis for the VCSELs from 4 different vendors that have been previously characterized. The results show that 25 Gbps is feasible at 125°C with low bias current. A common sensitivity requirement for any VCSEL was proposed and the minimum bias current needed for each analyzed VCSEL was shown. A number of questions were asked about the presentation and Mr. Pérez-Aranda provided answers.

Mr. Pérez-Aranda had requested to present *OMEGA 10 Gb/s Link budget analysis* ([https://www.ieee802.org/3/cz/public/27\\_oct\\_2020/perezaranda\\_3cz\\_02\\_271020\\_10G\\_link\\_budget.pdf](https://www.ieee802.org/3/cz/public/27_oct_2020/perezaranda_3cz_02_271020_10G_link_budget.pdf)).

The presentation describes the same kind of results of *OMEGA 25 Gb/s Link budget* but for the 10 Gb/s case.

Mr. Pérez-Aranda had requested to present *Impact of longer wavelengths fiber response in the 25 Gb/s link budget* ([https://www.ieee802.org/3/cz/public/27\\_oct\\_2020/perezaranda\\_3cz\\_03\\_271020\\_25G\\_emb\\_impact.pdf](https://www.ieee802.org/3/cz/public/27_oct_2020/perezaranda_3cz_03_271020_25G_emb_impact.pdf)).

The presentation describes the effect of using longer wavelengths for the light source in the link budget. The use of longer wavelength was proposed to increase the VCSEL reliability.

Mr. Pimpinella had requested to present *Wavelength Dependence of Effective Modal Bandwidth (EMB)* ([https://www.ieee802.org/3/cz/public/27\\_oct\\_2020/pimpinella\\_3cz\\_01\\_271020.pdf](https://www.ieee802.org/3/cz/public/27_oct_2020/pimpinella_3cz_01_271020.pdf)).

The presentation described the effect in the fiber Effective Modal Bandwidth of the use of longer wavelengths for the VCSEL. A minimum EMB was given for longer wavelengths. A number of questions were asked about the presentation and Mr. Pimpinella provided answers.

Mr. Pimpinella had requested to present *Model Noise Measurement for an expanded Beam Connector* ([https://www.ieee802.org/3/cz/public/27\\_oct\\_2020/pimpinella\\_3cz\\_02\\_271020.pdf](https://www.ieee802.org/3/cz/public/27_oct_2020/pimpinella_3cz_02_271020.pdf)).

The presentation described Modal Noise measurements on an EBO connector and showed that are very low. A number of questions were asked about the presentation and Mr. Pimpinella provided answers.

Mr. Torres reviewed with the Task Force group the ToDo list ([https://www.ieee802.org/3/cz/P802\\_3cz\\_todo\\_01a.xlsm](https://www.ieee802.org/3/cz/P802_3cz_todo_01a.xlsm)). Two contributions that may include motion and/or straw poll proposals are intended to be presented in the next meeting. Vote of the possible motions could take place on the 802.3cz Plenary Meeting by November 17-18<sup>th</sup>. The ToDo list was updated consequently.

With no further business to conduct, and having reached the end of the agenda, the meeting was adjourned at approximately 13:42 UTC.

Recording Secretary: Luisma Torres.