

Minutes
Multi-Gigabit Optical Automotive Ethernet (OMEGA)
Task Force Ad hoc
9, 10 March 2021

Attendance list as recorded in Webex participant list

Last Name	First Name	Employer	Affiliations	March 9th	March 10th
Abbot	John	Corning	Corning	X	X
Amamiya	Yasushi	MegaChips	MegaChips	X	
Andrae	Stefan	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	X	X
Aono	Michikazu	Yazaki	Yazaki	X	X
Araki	Nobuyasu	Yazaki	Yazaki	X	X
Bergner	Bert	TE Connectivity	TE Connectivity	X	
Boyer	Rich	APTIV	APTIV	X	
Barbero	Fernando	KDPOF	KDPOF		X
Choudhury	Mabud	OFS	OFS	X	X
Cuesta	Emilio	TE	TE		
Dittmann	Markus	KDPOF	KDPOF	X	X
Ferretti	Vincent	Corning	Corning	X	X
Felgenhauer	Alexander	Yazaki	Yazaki		
Fukuoka	Takashi	AutoNetworks Technologies Ltd.	AutoNetworks Technologies Ltd.; Sumitomo Electric Industries, Ltd.	X	X
Gianordoli	Stefan	GG-Group	GG-Group	X	
Glanzer	Martin	SEI ANTech	SEI ANTech	X	
Goto	Hideki	Toyota Motor Corporation	Toyota Motor Corporation	X	X
Grow	Robert	Robert M. Grow Consulting	RMG Consulting, KDPOF	X	X
Harshbarger	Douglas	Corning Incorporated	Corning Incorporated	X	X
Hartmann	Stephan	Siliconally GmbH	Siliconally GmbH	X	
Hayashi	Takehiro	HAT Labs	HAT Labs	X	X
HIRASE	Hidenari	AGC	AGC	X	X
Hyakutake	Yasuhiro	Adamant Namiki Precision Jewel	Adamant Namiki Precision Jewel	X	X
Isono	Hideki	FOC	FOC	X	X
Kadry	Haysam	Ford Motor Company	Ford Motor Company	X	X
KAGAMI	Manabu	NI Tech	NI Tech	X	X
Kazuhiko	Ishibe	Anritsu	Anritsu	X	
Kamino	John	OFS	OFS		X
KIKUTA	Tomohiro	Adamant Namiki Precision Jewel	Adamant Namiki Precision Jewel	X	X
Kobayashi	Shigeru	AIO Core	AIO Core	X	X
Koependoerfer	Erwin	Leoni	Leoni	X	
Kondo	Taiji	MegaChips	MegaChips	X	X
Law	David	HPE	HPE	X	X
Lee	Bernard	Senko	Senko		
Lee	Sylvanus	Leviton	Leviton	X	X
Lingle	Robert	OFS	OFS	X	
Malicoat	David	Malicoat Networking Solutions	Senko Advanced Components		X
Martino	Kjersti	Inneos	Inneos	X	X
Marques	Flavio	Furukawa electric	Furukawa Electric	X	
Masuda	Takeo	OITDA/PETRA	OITDA/PETRA	X	X
Mueller	Thomas	Rosemberger	Rosemberger	X	X
Nikolich	Paul	802 Chairman	802 Chairman		X
Ogura	Ichiro	Petra	Petra	X	
Omori	Kumi	NEC	NEC		X
Pardo	Carlos	KDPOF	KDPOF	X	X
Pérez-Aranda	Rubén	KDPOF	KDPOF	X	X
Piehler	David	Dell	Dell	X	X
Pimpinella	Rick	Panduit	Panduit	X	X

Pitwon	Richard	Resolute Photonics	Resolute Photonics		
Preis	Roland	MD Elektronik	MD Elektronik	X	X
Reinhard	Michael	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	X	
Sakai	Toshiaki	Socionext	Socionext	X	
Savi	Olindo	Hubbell Incorporated	Hubbell Incorporated	X	
Sawano	Hiroshi	OITDA		X	X
Shigematsu	Masayuki	Sumitomo Electric	Sumitomo Electric	X	X
Shiino	Matsato	Furukawa Electric	Furukawa Electric	X	X
Shubochkin	Roman	OFS	OFS	X	X
Silvano de Sousa	Johnathan	Gebauer & Griller	Gebauer & Griller	X	
Su	Charles	Huawei Technologies Co. Ltd	Huawei Technologies Co. Ltd	X	X
Suzuki	Yasuo	KDPOF Japan	KDPOF	X	X
Swanson	Steve	Corning Inc.	Corning Inc.	X	X
Takahashi	Ryutaro	Senko	Senko		X
Takahashi	Satoshi	POF Promotion	POF Promotion	X	X
Takahashi	Tadashi	Nitto Denko Corporation	Nitto Denko Corporation	X	X
Takayama	Kazuya	Nitto Denko Corporation	Nitto Denko Corporation	X	X
Theodoras	James	HG Genuine	HG Genuine		X
Torres	Luisma	KDPOF	KDPOF	X	X
Tsuzaki	Nozomi	Independent	Independent	X	X
Ueno	Yuto	Sumitomo	Sumitomo		X
WATANABE	Yuji	AGC	AGC	X	X
Wienckowski	Natalie	General Motors	General Motors	X	X
Xu	Xing	Huawei	Huawei	X	X
Yamada	Osamu	Yazaki	Yazaki	X	X
Yang	Yumeng	Huawei	Huawei		X
Yonezawa	Kenji	AGC	AGC	X	
Young	James	Commscope	Commscope	X	
Yurtin	John	APTIV	APTIV	X	
Zhu	Liang	Marvell	Marvell	X	X

Tuesday, 9th March 2021, 12:00 (noon) UTC

The meeting was called to order at approximately 12:01 UTC Tuesday 9th March 2021
Chaired by Robert Grow, IEEE P802.3cz Task Force Chair.

Mr. Grow presented *Agenda and General Information*
(https://iee802.org/3/cz/public/mar_2021/Agenda_3cz_01_0321.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 went through the general rules' presentation.

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. Torres had requested to present *Chief Editor's Report*
(https://iee802.org/3/cz/public/mar_2021/luisma_3cz_01_0321.pdf). The presentation describes some statistics of the Draft 1.0 received comments, some recommendations to fill the Excel comment sheet to make easier the import procedure to the Access tool, the proposed grouping of the comments and the proposed order to follow in the comment resolution process. A total of 23 comment groups (a.k.a. Buckets) were used to classify the 353 comments received. 128 comments were Technical and 225 Editorial.

Mr. Torres also thanked the commenters for their work reading and supporting the Draft elaboration.

Mr. Torres started the comment resolution process following the order of the comment groups described in his previous presentation. Buckets 1, 2 and 3 were discussed and resolved.

Ms. Wienckowski supported her comment #130 in Bucket 4 presenting *Redundant Link OAM #130* (https://iee802.org/3/cz/public/mar_2021/wienckowski_3cz_01_0321.pdf). A number of questions were asked about the presentation and Ms. Wienckowski provided answers. After some discussion, Mr. Torres added a task in the ToDo list (https://iee802.org/3/cz/P802_3cz_todo_01g.xlsm) to cover the requirements described in the presentation and the comment was resolved.

Buckets 5 and 6 were also discussed and resolved.

The meeting was recessed at approximately 16:02 UTC.

Wednesday, 10th March 2021, 12:00 (noon) UTC

The meeting was resumed at 12:01 UTC Wednesday 10th March 2021, chaired by Robert Grow, IEEE P802.3cz Task Force Chair.

Mr. Grow presented *Agenda and General Information* (https://iee802.org/3/cz/public/mar_2021/Agenda_3cz_01_0321.pdf).

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

Mr. Grow went through the general rules' presentation.

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. Grow informed the audience that the "Liaison items" point of the agenda was skipped inadvertently. Therefore, Mr. Grow proposed to return to the above-mentioned point, there was no objection.

Mr. Grow requested Mr. Pardo to present *Report on ISO TC22/SC32/WG10 NWIP 24581* (https://iee802.org/3/cz/public/mar_2021/pardo_3cz_02_0321.pdf). Mr. Pardo asked the audience to participate in the elaboration of the ISO 24581 standard in ISO TC22/SC32/WG10, and to collaborate jointly with this ISO group. Mr. Pardo encouraged the synchronization of the common requirements to the optical components that both standardization projects (IEEE P802.3cz and ISO 24581) may have. A number of questions were asked about the presentation and Mr. Pardo provided answers.

Having no more Liaison items to discuss, Mr. Grow opened the floor for PMD related presentations.

Mr. Watanabe had requested to present *Needs of Plastic Optical Fiber for Automobile* (https://iee802.org/3/cz/public/mar_2021/watanabe_3cz_01_0321.pdf). The presentation pointed out some misunderstanding about comparison of Glass and Plastic optical fiber. A number of questions were asked about the presentation and Mr. Watanabe provided answers. Mr. Swanson asked Mr. Watanabe to fix the first bullet in slide 2, as his contribution (https://iee802.org/3/cz/public/23_feb_2021/swanson_3cz_02a_230221_AUTO_MDI%20Specification.pdf) was not intended to exclude Plastic Optical Fiber (POF), but to present a PMD based on Glass Optical Fiber (GOF). Mr. Watanabe acknowledged Mr. Swanson's comment and Mr. Watanabe agreed to make the correction.

Mr. Takayama had requested to present *Automotive Application of Plastic Optical Fiber* (https://iee802.org/3/cz/public/mar_2021/takayama_3cz_01_0321_auto_appl_pof.pdf). The presentation describes the previous proven track record of POF, and that adding more fiber options to the project is preferable for the OEM and Tier 1. A number of questions were asked about the presentation and Mr. Takayama provided answers. Mr. Kadry asked for more data related with the temperature and bending tests performed to GI-POF. Mr. Takayama said that he will provide data through the TF email reflector.

Mr. Ogura had requested to present *A proposal of Si-photonics for automobile* (https://iee802.org/3/cz/public/mar_2021/ogura_3cz_01_0321.pdf). The presentation describes a proposal of PMD baseline for the link up to 25Gbps using a 1310nm wavelength. The reliability and cost comparison between the different PMD options are identified as points that need more data and discussion. A number of questions were asked about the presentation and Mr. Ogura provided answers. Mr. Pérez-de-Aranda asked about reliability data not only of the QD laser light source, but also about other components of the proposed system (waveguides, MZ-modulator, etc.). Mr. Ogura said that he will provide some additional reliability data.

Having exhausted the time scheduled for presentations, the remaining discussion about Mr. Ogura presentation, and the rest of scheduled PMD presentations are delayed until the next TF meeting to be held on March 16th.

Mr. Grow returned briefly to the last slides of *Agenda and General Information* (https://iee802.org/3/cz/public/mar_2021/Agenda_3cz_01_0321.pdf).

Mr. Grow suggested to the TF that comment resolution probably would not be completed during the plenary and suggested going to weekly meetings starting on March 23rd to complete comment resolution. The TF agreed and more meetings will be announced in the TF email reflector with the required notice .

The meeting was adjourned at approximately 16:04 UTC.

Recording Secretary: Luisma Torres.