Minutes
Multi-Gigabit Optical Automotive Ethernet (OMEGA)
Task Force Interim
1 February 2022

Attendance list as recorded in Webex participant list

Last Name	First Name	Employer	Affiliations	February 1th
Abbott	John	Corning	Corning	X
Amamiya	Yasushi	MegaChips	MegaChips	
Andrae	Stefan	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	
Aono	Michikazu	Yazaki	Yazaki	
Akin	Sami	VW AG	VW AG	
Araki	Nobuyasu	Yazaki	Yazaki	X
Beaudoin	Denis	TI	TI	
Bergner	Bert	TE Connectivity	TE Connectivity	
Boyer	Rich	APTIV	APTIV	
Barbero	Fernando	KDPOF	KDPOF	X
Bordogna	Mark	Intel	Intel	
Borda	Jamila	BMW	BMW	X
Brooks	Paul	Viavi Solutions	Viavi Solutions	
Brown	Blake	UNH-IOL	UNH-IOL	
Bruckman	Leon	Huawei	Huawei	X
Brychta	Michal	Analog Devices	Analog Devices	
Calvin	John	Keysight	Keysight	
Carlson	Steve	HSD, Bosch, Ethernovia		X
Castrillon	Alejandro	Marvell	Marvell	
Castro	Jose	Panduit	Panduit	
Chang	Ayla			
Chang	Jae-yong	Keysight	Keysight	
Choudhury	Mabud	OFS	OFS	X
Chuang	Keng Hua	HPE	HPE	
Connaughton	Mike	Leviton	Leviton	
Cuesta	Emilio	TE Connectivity	TE Connectivity	
DAmbrosia	John	Futurewei	Futurewei	X
Dawson	Fred	Ch		
DeAndrea	John	II-VI/Finisar	II-VI/Finisar	
DiBiaso	Eric	TE Connectivity	TE Connectivity	X
Diminico	Chris			X
Dittmann	Markus	KDPOF	KDPOF	X
Donthu	Suresh	Corning	Corning	X
Dube	Kae	UNH-IOL	UNH-IOL	
Eek	Magnus	Volvo Cars	Volvo Cars	
Felgenhauer	Alexander	Yazaki	Yazaki	
Fellhauer	Felix	Bosch	Bosch	
Ferretti	Vincent	Corning	Corning	X
Feyh	German	Broadcom	Broadcom	X
Fortusini	David	Corning	Corning	
Fritsche	Matthias	Harting	Harting	
Fukuoka	Takashi	AutoNetworks Technologies Ltd.	AutoNetworks Technologies Ltd.; Sumitomo Electric Industries, Ltd.	X
Gao	Xiangong	Huawei	Huawei	
Gao	Sharon	Huawei	Huawei	
Gharba	Ahmed	Volvo Car Corp.	Volvo Car Corp.	X
Giovanne	Laura	Broadcom	Broadcom	
Glanzner	Martin	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	X
Gomez	Chisato	Nitto Denko Corporation	Nitto Denko Corporation	X

Goto	Hideki	Toyota Motor Corporation	Toyota Motor Corporation	X
Grow	Robert	Robert M. Grow Consulting	RMG Consulting, KDPOF	
Guangcan	Mi	Huawei	Huawei	
Haasz	Jodi	IEEE-SA	IEEE-SA	X
Hajduczenia	Marek	Charter Communications	Charter Communications	
Harshbarger	Douglas	Corning Incorporated	Corning Incorporated	X
Hartmann	Stephan	Siliconally GmbH	Siliconally GmbH	
Hayashi	Takehiro	HAT Labs	HAT Labs	X
He	Xiang	Huawei	Huawei	
HIRASE	Hidenari	AGC	AGC	X
Horrmeyer	Bernd	Phoenix Contact	Phoenix Contact	
Huang	David	Broadcom	Broadcom	
Huang	Shaowu	Marvell	Marvell	
Hyakudai	Toshihisa	Sony	Sony	
Hyakutake	Yasuhiro	Adamant Namiki Precision Jewel	Adamant Namiki Precision Jewel	X
Ikeda	Teppei	Denso	Denso	
Ingham	Jonathan	Huawei	Huawei	X
Isono	Hideki	FOC	FOC	X
Jackson	Ken	Sumitomo	Sumitomo	
Jiménez	Andy	WESCO	WESCO	
Jonsson	Ragnar	Marvell	Marvell	
Kadry	Haysam	Ford Motor Company	Ford Motor Company	X
KAGAMI	Manabu	NI Tech	NI Tech	X
Kazuhiko	Ishibe	Anritsu	Anritsu	
Kamino	John	OFS	OFS	X
Kawahara	Keisuke	Furukawa Electric	Furukawa Electric	
Kawatsu	Yasuaki	APRESIA Systems	APRESIA Systems	
KIKUTA	Tomohiro	Adamant Namiki Precision Jewel	Adamant Namiki Precision Jewel	X
Kim	Joshua	Hirose USA	Hirose USA	
King	Roger	TRUMPF Photonic Components	TRUMPF Photonic Components	X
Kinningham	Alan	I-PEX	I-PEX	
Kobayashi	Shigeru	AIO Core	AIO Core	X
Koeppendoerfer	Erwin	Leoni	Leoni	X
Kondo	Taiji	MegaChips	MegaChips	X
Kota	Kishore	Marvell	Marvell	
Kumadayazaki	Taketo			
Kurashima	Kazuyoshi	AGC	AGC	X
Lackner	Hans	QoSCom GmbH	QoSCom GmbH	
Laubach	Mark	Self	Self	
Law	David	HPE	HPE	X
Lewis	David	Lumentum	Lumentum	X
LI	Tobey	MediaTek	MediaTek	
Liu	Karen	Lightwave	Lightwave	
Lee	Bernard	Senko	Senko	
Lee	Sylvanus	Leviton	Leviton	
Lingle	Robert	OFS	OFS	X
Maguire	Valerie	Siemon	Siemon	
Malicoat	David	Malicoat Networking Solutions	Senko Advanced Components	
Mark	Simon	Wurth	Wurth	
Martino	Kjersti	Inneos	Inneos	X
Marques	Flavio	Furukawa electric	Furukawa Electric	
Masuda	Takeo	OITDA/PETRA	OITDA/PETRA	X
Matheus	Kirsten	BMW	BMW	

Mandel	Juergen			X
McMillan	Larry	Western Digital	Western Digital	
Mueller	Harald	Endress + Hauser	Endress + Hauser	
Mueller	Thomas	Rosenberger	Rosenberger	X
Murty	Ramana	Broadcom	Broadcom	
Nakagawa	Hideki	AGC	AGC	X
Neulinger	Christian	MD Elektronik	MD Elektronik	X
New	Anthony	Prysmian Group	Prysmian Group	X
Nicholl	Gary	Cisco	Cisco	
Nikolich	Paul	802 Chairman	802 Chairman	
Niihara	Yoshihiro	Fujikura	Fujikura	X
Ogura	Ichiro	Petra	Petra	X
Omori	Kumi	NEC	NEC	
Ortiz	David	KDPOF	KDPOF	
Pandey	Sujan	Huawei	Huawei	
Pankert	Joseph	TRUMPF Photonic Components	TRUMPF Photonic Components	
Pardo	Carlos	KDPOF	KDPOF	
Parsons	Earl	Commscope	Commscope	
Peng	Semmy	Huawei	Huawei	
Pérez-Aranda	Rubén	KDPOF	KDPOF	X
Peteranderl	Ralf	Rosenberger	Rosenberger	
Petrarca	Ryan	TDK	TDK	
Pham	Phong	EastPoint	EastPoint	
Piehler	David	Dell	Dell	
Pimpinella	Rick	Panduit	Panduit	X
Pinzón	Plinio	KDPOF	KDPOF	
Pitwon	Richard	Resolute Photonics	Resolute Photonics	X
Powell	William	Independent	Independent	
Preis	Roland	MD Elektronik	MD Elektronik	X
Pritz	Helmut	MD Elektronik	MD Elektronik	X
Regev	Alon	Keysight	Keysight	
Reinhard	Michael	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	
Ren	Hao	Huawei	Huawei	
Retting	Thomas	Beckhoff Automation	Becjhoff Automation	
Rush	Joshua	UNH-IOL	UNH-IOL	
Sambasivan	Sam	AT&T	AT&T	
Sakai	Toshiaki	Socionext	Socionext	
Savi	Olindo	Hubbell Incorporated	Hubbell Incorporated	
Sawano	Hiroshi	OITDA		
Sayre	Edward	Samtec	Samtec	
Schmalzigaug	Thomas	HUBER+SUHNER	HUBER+SUHNER	X
Shukla	Priyank	Synopsys	Synopsys	
Shigematsu	Masayuki	Sumitomo Electric	Sumitomo Electric	
Shiino	Masato	Furukawa Electric	Furukawa Electric	X
Shubochkin	Roman	OFS	OFS	
Shukla	Priyank	Synopsys	Synopsys	
Silvano de Sousa	Jonathan	GG-Group	GG-Group	
Simms	Bill	NVIDIA	NVIDIA	X
Sommers	Scott	Molex	Molex	
Su	Charles	Huawei	Huawei	
Sun	Wensheng	Marvell	Marvell	X
Sun	Yi	OFS	OFS	X
Suzuki	Yasuo	KDPOF Japan	KDPOF	X
Swanson	Steve	Corning Inc.	Corning Inc.	X
Takahashi	Ryutaro	Senko	Senko	
Takahashi	Satoshi	POF Promotion	POF Promotion	X
Takahashi	Tadashi	Nitto Denko Corporation	Nitto Denko Corporation	X

Takayama	Kazuya	Nitto Denko Corporation	Nitto Denko Corporation	X
Tan	I-Hsing	Broadcom	Broadcom	
Tamada	Tomohiko	JAE	JAE	
Theuerkom	Thomas	Corning	Corning	
Theodoras	James	HG Genuine	HG Genuine	
Thompson	Geoff	GraCaSi		X
Torres	Luisma	KDPOF	KDPOF	
Tsujita	Yuichi	Nitto Denko Corporation	Nitto Denko Corporation	X
Tsuzaki	Nozomi	Independent	Independent	X
Ueno	Yuto	Sumitomo	Sumitomo	X
Vanderlaan	Paul	UL LLC	UL LLC	
Von Vangerow	Christian	TE	TE	
Voss	Bob	Panduit	Panduit	X
Walsh	Thomas	KDPOF	KDPOF	X
Wang	Ruxou	Huawei	Huawei	
Wang	Haojie	CMCC	CMCC	
WATANABE	Yuji	AGC	AGC	X
Wendt	Mattias	Signify	Signify	
Wienckowski	Natalie	General Motors	General Motors	X
Withey	James	Fluke	Fluke	
Wiesner	Michael	Trumpf	Trumpf	
Xu	Dayin	Rockwell Automation	Rockwell Automation	
Xu	Xing	Huawei	Huawei	
Yamada	Osamu	Yazaki	Yazaki	
Yang	Zhiping	Waymo	Waymo	
Yang	Yumeng	Huawei	Huawei	
Yasui	Hideshi	AGC	AGC	X
Yonemura	Masatoshi	NITech	NITech	
Yonezawa	Kenji	AGC	AGC	X
Young	James	Commscope	Commscope	X
Yurtin	John	APTIV	APTIV	X
Zhang	Sen	Huawei	Huawei	
Zhang	Tingting	Huawei	Huawei	
Zhiwei	Yang	ZTE	ZTE	
Zhong	Qiwen	Huawei	Huawei	
Zhu	Liang	Marvell	Marvell	
Zhuang	Yan	Huawei	Huawei	

Tuesday, 1st February 2022, 12:00 (noon) UTC

The meeting was called to order at approximately 12:00 UTC Tuesday 1st February 2022
Chaired by Robert Grow, IEEE P802.3cz Task Force Chair.

Mr. Grow presented *Agenda and General Information*
(https://www.ieee802.org/3/cz/public/1_feb_2022/Agenda_3cz_01_010222.pdf).

Mr. Grow presented the agenda for the meeting. The agenda was approved by unanimous consent.

Mr. Grow presented the January TF interim minutes for approval. The minutes were approved by unanimous consent.

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

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 pointed out that the standard drafting process shown in the presentation is not normative, but a proven path to success. Mr. Grow also remarked that it is the WG members who approve the the WG ballot and that rules do not require TF approval to advance to WG ballot.

Mr. Grow also briefly summarize his report to the WG about the blocking situation in 802.3cz TF.

Mr. Grow commented that three technical contributions have been asked to be presented next week. Mr. Grow announced that a new TF interim meeting 8 February has been scheduled to make these presentations possible.

Mr. Swanson asked to present *Moving forward in IEEE 802.3cz* (https://www.ieee802.org/3/cz/public/1_feb_2022/swanson_3cz_01_010222_Moving_Forward.pdf). This presentation is a summary of the current situation of the TF, a brief report of the voting results of the last motion about the adoption of the 980nm OM3, and its support level inside the TF. Mr. Swanson also pointed out that the different PMD proposals are on different timelines, that the TF Chair has the responsibility to produce a draft standard timely. And that there is a willingness for the 802.3 WG to take action if the TF fails to make progress.

After the presentation, Ms. Wienckowski moved Motion#1.

Motion #1

Move to adopt PMD, MDI and Media baseline text proposal of slides 6 – 12 of "swanson_3cz_02c_030821_AUTO_MDI_Baseline.pdf.

The motion was identified as technical (>= 75%).

Mr. Swanson seconded the motion.

The motion was opened for discussion.

Several participants spoke in favor of the motion, with arguments based on the expectation that the TF offer a timely, technically complete draft for voting in the WG. Also that it includes a PMD with broad support in the TF. It was also noted that the only reason given to not move forward is that an eventual PAR split to develop a standard based on the GIPOF PMD is not ready. Mr. Law and Mr. Grow clarified that the PAR split process can be done independently of the approval of Motion #1. Participants spoke against this motion based on the unresolved PAR split that would create a project to standardize a GIPOF PMD media separately. Opposition also suggested the need to collect more VCSEL random failures data. An OEM affiliated participant remarked that every automotive component has different fail modes, and that it is the standard in the industry is to control them at system level.

After a long discussion, Motion #1 was opened for voting using Direct Live Vote tool. The results were the following:

Yes: 37 No: 15 Abstain: 0

Motion #1 failed.

The detailed roll call results are shown in the following table.

Attendee	**Vote**
Anthony New	Yes
Carlos Pardo	Yes
Chisato Gomez	No
Christian Neulinger	Yes
Christopher Diminico	Yes
David Law	Yes
David Malicoat	Yes
Eric DiBiaso	Yes
Fernando Barbero	Yes
Haysam Kadry	Yes

Hideki Goto	No
Hideki Isono	No
Hideki Nakagawa	No
Hideshi Yasui	No
Ichiro Ogura	No
James Young	Yes
Jamila Josip Borda	Yes
John Abbott	Yes
John D'Ambrosia	Yes
John Kamino	Yes
Jon Lewis	Yes
Jonathan Ingham	Yes
Kazuya Takayama	No
Kenji Yonezawa	No
Kjersti Martino	Yes
Luis Torres	Yes
Manabu Kagami	Yes
Masato Shiino	Yes
Michael Reinhard	Yes
Natalie Wienckowski	Yes
Nobuyasu Araki	No
Nozomi Tsuzaki	No
Rick Pimpinella	Yes
Robert Lingle	Yes
Robert Voss	Yes
Roger King	Yes
Roland Preis	Yes
Ruben Perez De Aranda Alonso	Yes
Satoshi Takahashi	Yes
Shigeru Kobayashi	No
Steven Carlson	Yes
Steven Swanson	Yes
Tadashi Takahashi	No
Taiji Kondo	Yes
Takehiro Hayashi	Yes
Takeo Masuda	No
Vincent Ferretti	Yes
Wensheng Sun	Yes
Yasuhiro Hyakutake	Yes
Yasuo Suzuki	Yes
Yuichi Tsujita	No
Yuji Watanabe	No

Several participants expressed their frustration about this blocking situation that is not related with technical discussions. Mr. Grow and Mr. Law (the 802.3 Chair) commented that some will be scheduled for WG discussion on P802.3, possibly in the mid-session WG teleconference of Plenary Meeting in March, where the WG may consider actions to try to unblock it at WG level.

Mr. Torres asked to review the ToDo list (https://www.ieee802.org/3/cz/P802_3cz_todo_01n_200122.xlsm).

Mr. Ogura confirmed that he will present contributions about 1310 nm light source PMD bandwidth, attenuation, and launch conditions at a future meeting.

Mr. Pérez-Aranda confirmed that he will present contributions on 8th February about 980nm OM3 PMD that will allow a technically complete draft standard based on this PMD.

The ToDo list was updated accordingly.

Having completed the agenda, the meeting was adjourned without objection at approximately 13:26 UTC.

Recording secretary: Luisma Torres.