

Minutes
Multi-Gigabit Optical Automotive Ethernet (OMEGA)
Task Force Interim
12 October 2021

Attendance list as recorded in Webex participant list

Last Name	First Name	Employer	Affiliations	October 12th
Abbott	John	Corning	Corning	X
Akin	Sami	Volkswagen AG	Volkswagen AG	
Amamiya	Yasushi	MegaChips	MegaChips	
Andrae	Stefan	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	
Aono	Michikazu	Yazaki	Yazaki	
Araki	Nobuyasu	Yazaki	Yazaki	
Bergner	Bert	TE Connectivity	TE Connectivity	
Boyer	Rich	APTIV	APTIV	
Barbero	Fernando	KDPOF	KDPOF	X
Bordogna	Mark	Intel	Intel	
Borda	Jamila	BMW	BMW	
Brooks	Paul	Viavi Solutions	Viavi Solutions	
Bruckman	Leon	Huawei	Huawei	
Castro	Jose	Panduit	Panduit	
Chang	Jae-yong	Keysight	Keysight	
Choudhury	Mabud	OFS	OFS	X
Chuang	Keng Hua	HPE	HPE	
Cuesta	Emilio	TE Connectivity	TE Connectivity	X
DiBiao	Eric	TE Connectivity	TE Connectivity	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
Fortusini	David	Corning	Corning	
Fukuoka	Takashi	AutoNetworks Technologies Ltd.	AutoNetworks Technologies Ltd.; Sumitomo Electric Industries, Ltd.	X
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	
Grow	Robert	Robert M. Grow Consulting	RMG Consulting, KDPOF	X
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	
HIRASE	Hidenari	AGC	AGC	X
Hormeyer	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

Isono	Hideki	FOC	FOC	X
Jackson	Ken	Sumitomo	Sumitomo	X
Jiménez	Andy	WESCO	WESCO	
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	X
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
Kintingham	Alan	I-PEX	I-PEX	
Kobayashi	Shigeru	AIO Core	AIO Core	X
Koepfendoerfer	Erwin	Leoni	Leoni	X
Kondo	Taiji	MegaChips	MegaChips	X
Kumadayazaki	Taketo			
Kurashima	Kazuyoshi	AGC	AGC	X
Lackner	Hans	QoSCom GmbH	QoSCom GmbH	
Law	David	HPE	HPE	
Lewis	David	Lumentum	Lumentum	X
Liu	Karen	Lightwave	Lightwave	
Lee	Bernard	Senko	Senko	
Lee	Sylvanus	Leviton	Leviton	
Lingle	Robert	OFS	OFS	
Malicoat	David	Malicoat Networking Solutions	Senko Advanced Components	X
Martino	Kjersti	Inneos	Inneos	X
Marques	Flavio	Furukawa electric	Furukawa Electric	
Masuda	Takeo	OITDA/PETRA	OITDA/PETRA	X
Matheus	Kirsten	BMW	BMW	
McMillan	Larry	Western Digital	Western Digital	
Mueller	Harald	Endress + Hauser	Endress + Hauser	
Mueller	Thomas	Rosenberger	Rosenberger	
Murty	Ramana	Broadcom	Broadcom	X
Nakagawa	Hideki	AGC	AGC	
New	Anthony	Prysmian Group	Prysmian Group	X
Nicholl	Gary	Cisco	Cisco	
Nikolich	Paul	802 Chairman	802 Chairman	X
Niihara	Yoshihiro	Fujikura	Fujikura	
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	X
Parsons	Earl	Commscope	Commscope	
Peng	Semmy	Huawei	Huawei	
Pérez-Aranda	Rubén	KDPOF	KDPOF	
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

Reinhard	Michael	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	X
Retting	Thomas	Beckhoff Automation	Becjhoff Automation	
Sambasivan	Sam	AT&T	AT&T	
Savi	Olindo	Hubbell Incorporated	Hubbell Incorporated	
Sawano	Hiroshi	OITDA		X
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
Shukla	Priyank	Synopsys	Synopsys	
Silvano de Sousa	Jonathan	GG-Group	GG-Group	X
Simms	Bill	NVIDIA	NVIDIA	X
Su	Charles	Huawei	Huawei	
Sun	Wensheng	Marvell	Marvell	X
Sun	Yi	OFS	OFS	X
Suzuki	Yasuo	KDPOF Japan	KDPOF	
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	
Theuerkom	Thomas	Corning	Corning	
Theodoras	James	HG Genuine	HG Genuine	
Torres	Luisma	KDPOF	KDPOF	X
Tsujita	Yuichi	Nitto Denko Corporation	Nitto Denko Corporation	X
Tsuzaki	Nozomi	Independent	Independent	
Ueno	Yuto	Sumitomo	Sumitomo	X
Vanderlaan	Paul	UL LLC	UL LLC	
Voss	Bob	Panduit	Panduit	X
Walsh	Thomas	KDPOF	KDPOF	
WATANABE	Yuji	AGC	AGC	X
Wendt	Mattias	Signify	Signify	
Wienckowski	Natalie	General Motors	General Motors	
Withey	James	Fluke	Fluke	
Wiesner	Michael	Trumpf	Trumpf	
Xu	Xing	Huawei	Huawei	
Yamada	Osamu	Yazaki	Yazaki	
Yang	Zhiping	Waymo	Waymo	
Yang	Yumeng	Huawei	Huawei	X
Yasui	Hideshi	AGC	AGC	X
Yonemura	Masatoshi	NITech	NITech	
Yonezawa	Kenji	AGC	AGC	X
Young	James	Commscope	Commscope	X
Yurtin	John	APTIV	APTIV	
Zhang	Tingting	Huawei	Huawei	X
Zhiwei	Yang	ZTE	ZTE	
Zhong	Qiwen	Huawei	Huawei	X
Zhu	Liang	Marvell	Marvell	

Tuesday, 12th October 2021, 12:00 (noon) UTC

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

Mr. Grow presented *Agenda and General Information* (https://www.ieee802.org/3/cz/public/12_oct_2021/Agenda_3cz_01_121021.pdf).

Mr. Grow presented the agenda for the meeting. With no changes proposed, the agenda was declared approved.

Mr. Grow requested for comment or changes to the September Interim minutes. 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 asked Ms. Haasz to conduct a motion voting test using Direct Vote Live application. The motion test was conducted successfully and some minor problems individual participants had were solved. Mr. Torres thanked Ms. Haasz for her support on preparing Direct Vote Live application for this meeting.

Mr. Pérez-de-Aranda asked to present *Motions to adopt baseline proposals* (https://www.ieee802.org/3/cz/public/12_oct_2021/perezaranda_swanson_3cz_01a_121021_base_line_motions.pdf). This presentation contains a list of motions to adopt baseline proposals presented in previous meetings, jointly with the rationale behind each one.

First motion in the presentation was Motion #2:

Motion #2: Adopt PCS and PMA baseline proposals for 50 Gb/s operation, as described in [1] ([perezaranda_3cz_03_110521_50Gbps_pcs_pma.pdf](https://www.ieee802.org/3/cz/public/12_oct_2021/perezaranda_3cz_03_110521_50Gbps_pcs_pma.pdf)).

Mr. Pérez-de-Aranda moved the motion, and it was seconded by Mr. Swanson. Motion #2 was considered Technical and needed 75% of positive votes to pass.

Mr. Pérez-de-Aranda, Mr. Swanson, Mr. Pardo and others spoke in favor of the motion. Mr. Ramana, Mr. Watanabe and others spoke in opposition to the motion because they consider that 50 Gb/s is not required by OEMs. Mr. Pardo, Mr. Choudhury and others reminded that IEEE 802.3cy project and other project in ISO include speeds of more than 50 Gb/s.

After discussion, Mr. Grow asked if 802.3 voter objected to unanimous consent. Mr. Watanabe opposed. Mr. Grow asked Ms. Haasz to open Motion #2 for voting in Direct Vote Live application.

The voting result was the following:

Attendee	Vote
Anthony New	Yes
Carlos Pardo	Yes
David Lewis	Yes
David Malicoat	Yes
Emilio Cuesta	Yes
Eric DiBiaso	Yes
Erwin Koeppendoerfer	Yes
Fernando Barbero	Yes
Golam Choudhury	Yes
Hidenari Hirase	Abstain
Hiroshi Sawano	Abstain
Ichiro Ogura	No
James Young	Yes
John Abbott	Yes

John Kamino	Yes
Kazuya Takayama	Abstain
Kenji Yonezawa	Abstain
Kenneth Jackson	No
Luis Torres	Yes
Manabu Kagami	Yes
Martin Glanzner	Abstain
Masato Shiino	Yes
Michael Reinhard	Abstain
Ramana Murty	No
Rick Pimpinella	Yes
Robert Lingle	Yes
Robert Voss	Yes
Roland Preis	Yes
Ruben Perez De Aranda Alonso	Yes
Satoshi Takahashi	Yes
Steven Swanson	Yes
Tadashi Takahashi	Abstain
Taiji Kondo	Yes
Takeo Masuda	No
Tomohiro Kikuta	Yes
Vincent Ferretti	Yes
Yasuhiro Hyakutake	Yes
Yasuo Suzuki	Yes
Yi Sun	Yes
Yuji Watanabe	Abstain

Yes: 28 (87.5%>=75%)

No: 4

Abstain: 8

Motion #2 passed.

Next motion in the presentation was Motion #3:

Motion #3: Adopt PMD, MDI and Media baseline text proposal of [7]
[\(swanson 3cz 02c 030821 AUTO MDI Baseline.pdf\)](#).

Mr. Swanson moved the motion, and it was seconded by Mr. Pardo. Motion #3 was considered Technical and needed 75% of positive votes to pass.

Mr. Swanson, Mr. Pardo, Mr. Pérez-de-Aranda, Ms. Martino and others spoke in favor of the motion. Mr. Watanabe and others spoke in opposition to the motion because they consider that other PMD options are precluded due to the change of TF rules announced by Mr. Grow last TF Interim meeting. Mr. Grow clarified that there is no such change of rules, but enforcement of the TF rules that avoid the discussion of proposals that are not consistent with our CSD responses, TF objectives and/or are out of the scope of the approved TF PAR. Mr. Grow also remarked that, for example, a change on the objectives followed by a new proposal would not be considered out of the scope of the TF. Mr. Pitwon

spoke in opposition to the motion because he considers that the VCSEL reliability related with random failures was not addressed.

After discussion, Mr. Grow asked if any 802.3 voter opposed unanimous consent. Mr. Watanabe opposed. Mr. Grow asked Ms. Haasz to open Motion #3 for voting in Direct Vote Live application.

The voting result was the following:

Attendee	Vote
Anthony New	Yes
Carlos Pardo	Yes
David Lewis	Yes
David Malicoat	Abstain
Erwin Koeppendoerfer	Yes
Fernando Barbero	Yes
Golam Choudhury	Yes
Haysam Kadry	Abstain
Hideki Isono	No
Hidenari Hirase	No
Hiroshi Sawano	Abstain
Ichiro Ogura	No
James Young	Yes
John Abbott	Yes
John Kamino	Yes
Kazuya Takayama	No
Kenji Yonezawa	No
Kenneth Jackson	No
Luis Torres	Yes
Manabu Kagami	Abstain
Masato Shiino	Yes
Michael Reinhard	Abstain
Ramana Murty	No
Rick Pimpinella	Yes
Roland Preis	Yes
Ruben Perez De Aranda Alonso	Yes
Satoshi Takahashi	No
Steven Swanson	Yes
Tadashi Takahashi	No
Taiji Kondo	No
Takeo Masuda	Abstain
Tomohiro Kikuta	Abstain
Vincent Ferretti	Yes
Yasuhiro Hyakutake	Yes
Yasuo Suzuki	Yes
Yi Sun	Yes
Yuji Watanabe	No

Yes: 19 (63.3%<75%)

No: 11

Abstain: 7

Motion #3 failed.

Mr. Pérez-de-Aranda asked Mr. Grow if he can make a request to TF members voting negatively to Motion #3 asking what is needed to change in the proposed baseline to have a positive vote. Mr. Grow gave the opportunity to TF members voting negatively that did not provide their position in the motion discussion to respond to that request. Nobody answered. Mr. Grow suggested Mr. Pérez-de-Aranda to post in the TF reflector a message aimed to collect the set of changes in the proposed PMD needed to allow its adoption.

Next motion in the presentation was Motion #4:

Motion #4: Adopt Energy Efficient Ethernet (EEE) baseline proposal as described in [5] ([perezaranda 3cz 04 0721 eee.pdf](#)).

Mr. Pérez-de-Aranda moved the motion, and it was seconded by Mr. Torres. Motion #4 was considered Technical and needed 75% of positive votes to pass.

Mr. Pérez-de-Aranda spoke in favor of the motion.

Mr. Grow asked for any opposition to unanimous consent to the motion. No opposition to the unanimous consent was raised.

Motion #4 passed by unanimous consent.

Next motion in the presentation was Motion #5:

Motion #5: Adopt loopback modes baseline proposal as described in [4] ([perezaranda 3cz 03 0721 loopback modes.pdf](#)).

Mr. Pérez-de-Aranda moved the motion, and it was seconded by Mr. Abbott. Motion #5 was considered Technical and needed 75% of positive votes to pass.

Mr. Pérez-de-Aranda spoke in favor of the motion.

Mr. Grow asked if any 802.3 voter opposed unanimous consent to the motion. No objection was raised.

Motion #5 passed by unanimous consent.

Last motion in the presentation was Motion #6:

Motion #6: Adopt Bit Error Ratio (BER) test mode baseline proposal as described in [3] ([perezaranda 3cz 02 0721 ber testmode.pdf](#)).

Mr. Pérez-de-Aranda moved the motion, and it was seconded by Mr. Abbott. Motion #6 was considered Technical and needed 75% of positive votes to pass.

Mr. Pérez-de-Aranda spoke in favor of the motion.

Mr. Grow asked for any 802.3 voter to indicate opposition to unanimous consent to the motion. No opposition was raised

Motion #6 passed by unanimous consent.

Mr. Grow asked to present *P802.3cz Timeline*

(https://www.ieee802.org/3/cz/public/12_oct_2021/grow_3cz_01a_1012.pdf). The presentation

describes a possible revised Timeline for the project. Some discussion followed, without specific suggestions for changes.

Mr. Grow asked Mr. Torres to chair the meeting. Mr. Torres accepted to chair the meeting.

The following motion was moved by Bob Grow:

Motion #7: Adopt revised P802.3cz timeline per [grow 3cz 01a 1012.pdf](#) slide 4.

The Motion #7 was seconded by Mr. Swanson. The motion was considered Technical and needed 75% of positive votes to pass.

Mr. Torres asked for any 802.3 voter to indicate opposition to unanimous consent. No opposition was raised. The motion passed by unanimous consent.

Mr. Torres then turned chairing the meeting back to Mr. Grow.

Mr. Torres reviewed with the Task Force group the ToDo list.

Mr. Torres asked Mr. Ogura about contributions with new data supporting Silicon Photonics + OM3 alternative PMD. Mr. Ogura said that two of the expected contributions for September are still delayed, and that presentations with initial bandwidth measurements and launch condition at 1310nm can be expected for the next TF meeting (26 October).

Mr. Torres asked Mr. Takayama about contributions with new data supporting GIPOF + OM3 alternative PMD. Mr. Takayama said that first contribution with bandwidth and attenuation measurements can be expected by 18 January. Other contributions are still without due date.

The ToDo list was updated consequently.

Mr. Grow presented briefly the next TF meetings, and announced that the next one on 26 October will be a TF Interim meeting. Mr. Grow asked the TF about the number of TF meetings to have during IEEE 802 November virtual plenary session. It was agreed to reserve 9, 10, 16 and 17 November for 8023.cz TF meetings. Then, interim teleconferences for 30 November and 14 December are expected.

Having exhausted the scheduled time, the meeting was adjourned at approximately 14:06 UTC.

Recording secretary: Luisa Torres.