

Minutes
Multi-Gigabit Optical Automotive Ethernet (OMEGA)
Task Force Interim
22 June 2021

Attendance list as recorded in Webex participant list

Last Name	First Name	Employer	Affiliations	June 22th
Abbott	John	Corning	Corning	X
Amamiya	Yasushi	MegaChips	MegaChips	
Andrae	Stefan	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	
Aono	Michikazu	Yazaki	Yazaki	
Araki	Nobuyasu	Yazaki	Yazaki	X
Bergner	Bert	TE Connectivity	TE Connectivity	
Boyer	Rich	APTIV	APTIV	
Barbero	Fernando	KDPOF	KDPOF	X
Bordogna	Mark	Intel	Intel	
Brooks	Paul	Viavi Solutions	Viavi Solutions	
Bruckman	Leon	Huawei	Huawei	
Chang	Jae-yong	Keysight	Keysight	X
Choudhury	Mabud	OFS	OFS	X
Chuang	Keng Hua	HPE	HPE	
Cuesta	Emilio	TE Connectivity	TE Connectivity	
Dittmann	Markus	KDPOF	KDPOF	
Donthu	Suresh	Corning	Corning	X
Eek	Magnus	Volvo Cars	Volvo Cars	
Felgenhauer	Alexander	Yazaki	Yazaki	
Ferretti	Vincent	Corning	Corning	X
Fortusini	David	Corning	Corning	
Fukuoka	Takashi	AutoNetworks Technologies Ltd.	AutoNetworks Technologies Ltd.; Sumitomo Electric Industries, Ltd.	X
Giovanne	Laura	Broadcom	Broadcom	
Glanzner	Martin	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	
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	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
HIRASE	Hidenari	AGC	AGC	X
Hormmeyer	Bernd	Phoenix Contact	Phoenix Contact	
Huang	David	Broadcom	Broadcom	
Huang	Shaowu	Marvell	Marvell	
Hyakutake	Yasuhiro	Adamant Namiki Precision Jewel	Adamant Namiki Precision Jewel	X
Isono	Hideki	FOC	FOC	X
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

Kobayashi	Shigeru	AIO Core	AIO Core	X
Koeppendoerfer	Erwin	Leoni	Leoni	X
Kondo	Taiji	MegaChips	MegaChips	X
Law	David	HPE	HPE	
Lewis	David	Lumentum	Lumentum	
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	
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	X
New	Anthony	Prysmian Group	Prysmian Group	
Nicholl	Gary	Cisco	Cisco	
Nikolich	Paul	802 Chairman	802 Chairman	
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	X
Pardo	Carlos	KDPOF	KDPOF	X
Pérez-Aranda	Rubén	KDPOF	KDPOF	X
Pham	Phong	EastPoint	EastPoint	
Piehler	David	Dell	Dell	
Pimpinella	Rick	Panduit	Panduit	X
Pinzón	Plinio	KDPOF	KDPOF	
Pitwon	Richard	Resolute Photonics	Resolute Photonics	X
Preis	Roland	MD Elektronik	MD Elektronik	X
Reinhard	Michael	SEI Antech-Europe GmbH	SEI Antech-Europe GmbH	
Sambasivan	Sam	AT&T	AT&T	
Savi	Olindo	Hubbell Incorporated	Hubbell Incorporated	
Sawano	Hiroshi	OITDA		
Sayre	Edward	Samtec	Samtec	
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
Sun	Wensheng	Marvell	Marvell	X
Sun	Yi	OFS	OFS	
Suzuki	Yasuo	KDPOF Japan	KDPOF	
Swanson	Steve	Corning Inc.	Corning Inc.	X
Takahashi	Ryutaro	Senko	Senko	X
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	X
Theodoras	James	HG Genuine	HG Genuine	
Torres	Luisma	KDPOF	KDPOF	X

Tsujita	Yuichi	Nitto Denko Corporation	Nitto Denko Corporation	X
Tsuzaki	Nozomi	Independent	Independent	X
Ueno	Yuto	Sumitomo	Sumitomo	X
Walsh	Thomas	KDPOF	KDPOF	X
WATANABE	Yuji	AGC	AGC	X
Wendt	Mattias	Signify	Signify	
Wienckowski	Natalie	General Motors	General Motors	X
Wiesner	Michael	Trumpf	Trumpf	
Xu	Xing	Huawei	Huawei	X
Yamada	Osamu	Yazaki	Yazaki	
Yang	Yumeng	Huawei	Huawei	X
Yasui	Hideshi	AGC	AGC	X
Yonezawa	Kenji	AGC	AGC	X
Yurtin	John	APTIV	APTIV	
Zhiwei	Yang	ZTE	ZTE	
Zhu	Liang	Marvell	Marvell	

Tuesday, 22th June 2021, 12:00 (noon) UTC

The meeting was called to order at approximately 12:01 UTC Tuesday 22th June 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/22_jun_2021/Agenda_3cz_01_220621.pdf).

Mr. Grow presented the agenda for the meeting. Mr. Takayama asked to switch his presentation before the straw poll, as it includes relevant comparative cost data. The proposal was accepted without opposition.

The modified 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 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. Takayama asked to present *Relative Cost Analysis*

(https://www.ieee802.org/3/cz/public/22_jun_2021/takayama_3cz_01_220621_relative_cost_analysis.pdf). This presentation shows a cost comparison with data available in websites between non-automotive patch cords using GI-POF and OM3. It also shows that the connector cost is the dominant factor for both patch cords. Several questions were made and Mr. Takayama provided answers.

Mr. Swanson asked to present *Straw Polls*

(https://www.ieee802.org/3/cz/public/22_jun_2021/swanson_3cz_01_220621_straw_polls.pdf) Mr. Swanson presented briefly the background and motivation of each of the 9 proposed straw polls, and they were conducted. The straw polls wording and results are available in the TF public website area (https://www.ieee802.org/3/cz/public/22_jun_2021/swanson_3cz_02_220621_straw_polls_results.pdf).

Mr. Pérez-de-Aranda asked to present *VCSEL reliability. Results for data-center mission profile*

(https://www.ieee802.org/3/cz/public/22_jun_2021/perezaranda_3cz_01_220621_vcsl_reliability_mission_profiles.pdf). This presentation shows that the required mission profile for automotive applications is much more restrictive than the equivalent for data centers applications, and that 25Gb/s 850nm VCSEL used for data centers should reduce the operation current until 5 mA to reach the reliability level shown in the TF for 980nm VCSELs. Such operation current reduction to 5 mA is expected to degrade the transmission characteristics of the 25Gb/s 850nm VCSEL. Several questions were made and Mr. Pérez-de-Aranda provided answers.

Mr. Pankert asked to present *Experience with random failure in 940nm devices*

(https://www.ieee802.org/3/cz/public/22_jun_2021/pankert_3cz_01_220621_random_failures.pdf)

. This presentation shows the random failure results for 940nm VCSEL in the consumer electronics industry. It also shows that the main source of random failures was located in the substrate, that is common for 850nm, 940nm and 980nm VCSELs. Several questions were made and Mr. Pankert provided answers.

Mr. Grow asked Mr. Torres how to proceed with the Draft 1.1 comment resolution. Mr. Torres answered that, having only few minutes to reach the scheduled time, he prefers to defer the comment resolution until next TF meeting.

Mr. Grow wrapped up the teleconference with the last slides of *Agenda and General Information* (https://www.ieee802.org/3/cz/public/22_jun_2021/Agenda_3cz_01_220621.pdf). Mr. Grow reminded that next TF meeting is scheduled for 29th June.

The meeting was adjourned at approximately 13:48 UTC.