

Unconfirmed Meeting Minutes: IEEE P802.3cy Greater than 10 Gb/s Electrical
Automotive Ethernet Task Force
September 21, 2021
Telephonic

Prepared by Jon Lewis

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force meeting convened at 10:03 AM (US EST), Tuesday September 21, 2021 by Steve Carlson, Task Force Chair.

Attendance is listed in Appendices A & B

Administrative Matters

Steve Carlson displayed the agenda in
https://www.ieee802.org/3/cy/public/sep21/agenda_3cy_01d_0921.pdf.

The Task Force Chair noted that introductions would be skipped.

Steve Carlson reviewed the agenda in
https://www.ieee802.org/3/cy/public/sep21/agenda_3cy_01d_0921.pdf.
Mr. Carlson asked if there were any modifications to the agenda, none responded.

Motion #1: Move to approve the agenda as shown in
https://www.ieee802.org/3/cy/public/sep21/agenda_3cy_01d_0921.pdf

M: M. Hajduczenia

S: R. Boyer

Approved by unanimous consent (Procedural > 50%)

Motion #2: Move to approve the minutes from the 3 August, 10 August, 31 August, and 7 September ad hoc teleconferences, and the 13 & 20 July Plenary teleconference meetings as posted.

M: N. Wienckowski

S: R. Jonsson

Approved by unanimous consent (Procedural > 50%)

Mr. Carlson reviewed Task Force decorum and asked if anyone from the press was present, none responded.

Attendance, Mr. Carlson noted that the attendance for this meeting was being recorded in IMAT and noted that there was no session code for this plenary meeting series.

Mr. Carlson reviewed the Task Force organization, the goals for the meeting, access to the reflector and website, and ground rules for the meeting.

IEEE Patent Policy, at **10:17 AM**, Mr. Carlson asked if any participant had not seen the patent policy slides (agenda slides 13-17), none responded. Mr. Carlson made the call for potentially essential patents at **10:18 AM**, and none responded.

Mr. Carlson asked if anyone had not heard and needed to hear the IEEE-SA copyright policy. None responded. He showed the IEEE-SA copyright slides (agenda slides 18-20).

Mr. Carlson asked if anyone had not heard and needed to hear the IEEE-SA participation behavior policy. None responded. He showed the IEEE-SA participation behavior slide, (agenda slide 21).

Mr. Carlson asked if anyone had not heard and needed to hear the IEEE-SA participation policy on “individual process”. None responded. He showed the IEEE-SA participation slides on “individual process”, (agenda slides 22-23).

The Chair reviewed the IEEE 802.3 Standards process and where the Task Force was in the process and the process by which we will develop the standard.

Liaisons: None

The Chair shared the location of the Action Items for the Task Force, AKA the To – Do List, which will be reviewed and updated during the meeting.

Mr. Carlson showed the Task Force documentation (agenda slides 31-33)

Mr. Carlson reviewed Task Force virtual meetings slides from the agenda (agenda slides 34-37).

PRESENTATIONS:

Mr. Carlson then moved to the presentations for the meeting.

Title: Proposed Text for PAM4 Modulation

URL: https://www.ieee802.org/3/cy/public/sep21/jonsson_etal_3cy_01a_09_21_21.pdf

Presenters: Ragnar Jonsson, Marvell; Mike Tu, Broadcom; Hossein Sedarat, Ethernovia

Straw Poll #1:

I support adopting the modulation text for 802.3cy as described in slides 4 and 5 of [jonsson_etal_3cy_01a_09_21_21.pdf](https://www.ieee802.org/3/cy/public/sep21/jonsson_etal_3cy_01a_09_21_21.pdf).

Y: 36 N: 0

Motion #3: Move to adopt modulation text for 802.3cy as described in slides 4 and 5 of [jonsson etal 3cy 01a 09 21 21.pdf](#) with editorial license to implement

M: R. Jonsson

S: T. Souvignier

Motion Passes by Unanimous Consent (Technical >= 75%)

Title: P802.3cy To Do List

URL: <https://ieee802.org/3/cy/todo/index.html>

Presenter: Natalie Wienckowski, GM

The to-do list was reviewed and updated. Please see the latest list on our website.

Mr. Carlson reviewed the information on Future Meetings.

The Chair noted that the agenda had been completed and asked if there was any further business. None responded.

The meeting was recessed at 11:04 AM US EDT and will resume September 28, 2021 at 10:00 AM US EDT.

The meeting resumed at 10:02 AM US EDT on September 28, 2021 by Steve Carlson, Task Force Chair.

Steve Carlson displayed the agenda in

https://www.ieee802.org/3/cy/public/sep21/agenda_3cy_01d_0921.pdf.

Mr. Carlson reviewed Task Force decorum and asked if anyone from the press was present, none responded.

Mr. Carlson reviewed the Task Force organization, the goals for the meeting, access to the reflector and website, and ground rules for the meeting.

Attendance, Mr. Carlson noted that the attendance for this meeting was being recorded in IMAT and noted that there was no session code for this plenary meeting series.

IEEE Patent Policy, at **10:07 AM**, Mr. Carlson asked if any participant had not seen the patent policy slides (agenda slides 13-17), none responded. Mr. Carlson made the call for potentially essential patents at **10:08 AM**, and none responded.

Mr. Carlson asked if anyone had not heard and needed to hear the IEEE-SA copyright policy. None responded. He showed the IEEE-SA copyright slides (agenda slides 18-20).

Mr. Carlson asked if anyone had not heard and needed to hear the IEEE-SA participation behavior policy. None responded. He showed the IEEE-SA participation behavior slide, (agenda slide 21).

Mr. Carlson asked if anyone had not heard and needed to hear the IEEE-SA participation policy on “individual process”. None responded. He showed the IEEE-SA participation slides on “individual process”, (agenda slides 22-23).

The Chair reviewed the IEEE 802.3 Standards process and where the Task Force was in the process and the process by which we will develop the standard.

Liaisons: None

PRESENTATIONS:

Mr. Carlson then moved to the presentations for the meeting.

Title: 802.3cy coupling- and screening attenuation

URL: https://www.ieee802.org/3/cy/public/sep21/mueller_3cy_01a_09_28_21.pdf

Presenters: Thomas Müller, Rosenberger

Motion #4: Move to adopt the coupling- and screening attenuation requirements on slide 3 of muller_3cy_01a_09_28_21.pdf for the 802.3cy link segment screening and coupling attenuation per the measurement setup defined in Annex 149A.

M: Thomas Müller S: Natalie Wienckowski

Technical >= 75%

Motion Passed by unanimous consent

Title: Code for Micro-Reflection Limit

URL: https://www.ieee802.org/3/cy/public/sep21/ionsson_3cy_01a_09_28_21.pdf

Presenters: Ragnar Jonsson, Marvell

Title: 802.3cy Test Fixture Considerations

URL: https://www.ieee802.org/3/cy/public/sep21/diminico_kadry_3cy_01a_9_28_21.pdf

Presenters: Chris Diminico, MC Communications

Mr. Carlson noted that the next ad-hoc meeting would be converted to an interim meeting and that the date/time would be on the IEEE 802.3 meeting calendar.

Mr. Carlson then reviewed the future meetings and noted that the November plenary requires registration.

Title: P802.3cy To Do List

URL: <https://ieee802.org/3/cy/todo/index.html>

Presenter: Natalie Wienckowski, GM

Mr. Carlson noted that the agenda had been exhausted and adjourned the meeting

The Meeting was adjourned at 11:55 AM US EDT on September 28, 2021

Appendix A: Attendees at the IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force, September 21, 2021.

Name	Employer	Affiliation
Akin, Sami	Volkswagen AG	Volkswagen Ag
Andrae, Stefan	SEI ANTech-Europe GmbH	SEI ANTech-Europe GmbH
Aronson, Joseph	Texas Instruments Inc.	Texas Instruments Inc.
Boyer, Rich	Aptiv - Signal and Power Solutions	Aptiv Signal and Power Solutions
Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
Brown, Matthew	Huawei Technologies Canada	Huawei Technologies Canada
Brychta, Michal	Analog Devices Inc.	Analog Devices Inc.
Carlson, Steven	High-Speed Design Inc.	HSD, Robert Bosch GmbH, Ethernovia
Carty, Clark	Cisco Systems, Inc.	Cisco Systems, Inc.
Chang, Jae-yong		Keysight Technologies
Choudhury, Golam	OFS	OFS
Cuesta, Emilio	TE Connectivity	TE Connectivity
Dawson, Fred	Chemours Canada Company	Chemours Canada Company
DiBiaso, Eric	TE Connectivity	TE Connectivity
Feyh, German	Broadcom Corporation	Broadcom Corporation
Fischer, Peter	BKS Kabel-Service AG	BKS Kabel-Service AG
Fritsche, Matthias	HARTING Technologie Gruppe	HARTING Electronics GmbH
Gauthier, Claude	NXP Semiconductors	NXP Semiconductors
Graba, James	Broadcom Corporation	Broadcom Corporation
Graber, Steffen	Pepperl+Fuchs SE	Pepperl+Fuchs SE
Grow, Robert	RMG Consulting	RMG Consulting, KDPOF
Gubow, Martin	Keysight Technologies	Keysight Technologies
Hajduczenia, Marek	Charter Communications	Charter Communications
Huber, Christoph		Rosenberger
Huszk, Gergely	Self	KONE
Hyakudai, Toshihisa		Sony Corporation
Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell
Kadry, Haysam	Ford Motor Company	Ford Motor Company
Kagami, Manabu	Nagoya Institute of Technology	Nagoya Institute of Technology (NITech)
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Koeppendoerfer, Erwin	LEONI Kabel GmbH	LEONI
Kondo, Taiji	MegaChips Corporation	MegaChips Corporation
Kunz, Stephan		Rosenberger
Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Lewis, Jon	Dell Technologies	Dell Technologies
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
MASUDA, TAKEO	OITDA	OITDA
McClellan, Brett	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.

Name	Employer	Affiliation
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Neulinger, Christian	MD Elektronik	MD Elektronik
NIIHARA, YOSHIHIRO	Fujikura Ltd.	Fujikura Ltd.
Pandey, Sujan	Huawei Technologies (Netherlands) B.V.	Huawei Technologies (Netherlands) B.V.
Petrarca, Ryan	TDK Corporation	TDK Corporation
Piebler, David	Dell Technologies	Dell
Preis, Roland	MD Elektronik GmbH	MD Elektronik GmbH
Reinhard, Michael	SEI ANTech-Europe GmbH	SEI ANTech-Europe GmbH
Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
Sedarat, Hossein	Ethernovia	Ethernovia
Shiino, Masato	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Simms, William	NVIDIA Corporation	NVIDIA Corporation
sisk, jason	University of New Hampshire InterOperability Laboratory (UNH-IOL)	University of New Hampshire InterOperability Laboratory (UNH-IOL)
Souvignier, Tom	Broadcom Corporation	Broadcom Corporation
Sun, Yi		OFS
Takahashi, Satoshi	Self Employed	Self Employed
Theodoras, James	HG Genuine	HG Genuine
Tofanicchio, Giuseppe		STMicroelectronics
Torres, Luis	Knowledge Development for Plastic Optical Fiber	Knowledge Development for Plastic Optical Fiber
Tremblay, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Tu, Mike	Broadcom Corporation	Broadcom Corporation
Vanderlaan, Paul	UL LLC	UL LLC
Wienckowski, Natalie	General Motors Company	General Motors Company
Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Zimmerman, George	CME Consulting	CME Consulting/ADI, APL Group, CommScope, Cisco Systems, Marvell, and SenTekse

Appendix B: Attendees at the IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force, September 28, 2021.

Name	Employer	Affiliation
Akin, Sami	Volkswagen AG	Volkswagen Ag
Aronson, Joseph	Texas Instruments Inc.	Texas Instruments Inc.
Boyer, Rich	Aptiv - Signal and Power Solutions	Aptiv Signal and Power Solutions
Carlson, Steven	High-Speed Design Inc.	HSD, Robert Bosch GmbH, Ethernovia
Carty, Clark	Cisco Systems, Inc.	Cisco Systems, Inc.
Chang, Jae-yong		Keysight Technologies
DiBiaso, Eric	TE Connectivity	TE Connectivity
Donahue, Curtis	Rohde & Schwarz	Rohde & Schwarz
Dube, Kathryn	UNH-IOL	UNH-IOL
Feyh, German	Broadcom Corporation	Broadcom Corporation
Fischer, Peter	BKS Kabel-Service AG	BKS Kabel-Service AG
Glanzner, Martin		SEI Automotive Europe GmbH
Graba, James	Broadcom Corporation	Broadcom Corporation
Grow, Robert	RMG Consulting	RMG Consulting, KDPOF
Hajduczenia, Marek	Charter Communications	Charter Communications
Hess, David	CORD DATA	Cord Data / Cord Data
Ichimaru, Toshihiro		Sumitomo Electric Industries, LTD
Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell
Kadry, Haysam	Ford Motor Company	Ford Motor Company
Kagami, Manabu	Nagoya Institute of Technology	Nagoya Institute of Technology (NITech)
KAWAHARA, KEISUKE	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Koeppendoerfer, Erwin	LEONI Kabel GmbH	LEONI
Kondo, Taiji	MegaChips Corporation	MegaChips Corporation
Laubach, Mark	IEEE member / Self Employed	IEEE member / Self Employed
Law, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Lewis, Jon	Dell Technologies	Dell Technologies
Little, Terrance		Foxconn Electronics Inc.
McClellan, Brett	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Mueller, Thomas	Rosenberger	Rosenberger
Neulinger, Christian	MD Elektronik	MD Elektronik
NIIHARA, YOSHIHIRO	Fujikura Ltd.	Fujikura Ltd.
Pandey, Sujan	Huawei Technologies (Netherlands) B.V.	Huawei Technologies (Netherlands) B.V.
Patel, Harsh	Molex LLC	Molex LLC
Petrarca, Ryan	TDK Corporation	TDK Corporation
Sedarat, Hossein	Ethernovia	Ethernovia
Shiino, Masato	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC

Name	Employer	Affiliation
Souvignier, Tom	Broadcom Corporation	Broadcom Corporation
TAZEBAY, MEHMET	Broadcom Corporation	Broadcom Corporation
Tofanicchio, Giuseppe		STMicroelectronics
Tremblay, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Tu, Mike	Broadcom Corporation	Broadcom Corporation
Wienckowski, Natalie	General Motors Company	General Motors Company
Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Zhong, Qiwen	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Zimmerman, George	CME Consulting	CME Consulting/ADI, APL Group, CommScope, Cisco Systems, Marvell, and SenTekse