

Unconfirmed Meeting Minutes: IEEE 802.3 Greater than 10 Mb/s Long-Reach Single  
Pair Ethernet Study Group  
November 10, 2021  
Telephonic

Prepared by Jon Lewis

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group meeting convened at 10:04 AM (US EST), Wednesday November 10, 2021 by George Zimmerman, Study Group Chair.

Attendance is listed in Appendices A

Administrative Matters

George Zimmerman displayed the agenda in  
[https://www.ieee802.org/3/GT10MSPE/public/agenda\\_3GT10M\\_01\\_11102021.pdf](https://www.ieee802.org/3/GT10MSPE/public/agenda_3GT10M_01_11102021.pdf).

The Task Force Chair noted that introductions would be skipped.

George Zimmerman reviewed the agenda in  
[https://www.ieee802.org/3/GT10MSPE/public/agenda\\_3GT10M\\_01\\_11102021.pdf](https://www.ieee802.org/3/GT10MSPE/public/agenda_3GT10M_01_11102021.pdf).  
Mr. Zimmerman asked if there were any modifications to the agenda, none responded and Mr. Zimmerman noted that the agenda was approved by unanimous consent.

Mr. Zimmerman asked if there were any modifications to the minutes from the last meeting, none responded, and Mr. Zimmerman noted that the minutes were approved by unanimous consent.

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

**Attendance,** Mr. Zimmerman 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. Zimmerman reminded the group that the plenary meeting series required a paid registration and reviewed the consequences of failure to pay.

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

Mr. Zimmerman asked if any participant had not seen the patent policy slides (agenda slide 11), none responded. Mr. Zimmerman reviewed the "Guidelines for IEEE SA Meetings" slide for the group.

Mr. Zimmerman 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 12-14).

Mr. Zimmerman 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 15).

Mr. Zimmerman 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 16-17).

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. Zimmerman then moved to the presentations for the meeting.

#### **Title: 100BASE-T1L Reach and Connectors**

URL: [https://www.ieee802.org/3/GT10MSPE/public/graber\\_GT10MSPE\\_01\\_11082021.pdf](https://www.ieee802.org/3/GT10MSPE/public/graber_GT10MSPE_01_11082021.pdf)

Presenters: Steffen Graber, Pepperl+Fuchs

Discussion then moved to the draft objectives (objectives\_11102021\_in.pdf), which were modified to form Objectives\_11102021\_out.pdf to represent current consensus. Following that discussion, the following motions were offered:

#### **Motion #1: Adopt objectives as shown on slides 2 and 3 of Objectives\_11102021\_out.pdf**

**M: Peter Jones**

**S: Steve Carlson**

**Motion Passes by unanimous consent (Technical  $\geq$  75%)**

#### **Motion #2: Request that the IEEE 802.3 Working Group approve the first rechartering of the Greater than 10 Mb/s Long-Reach Single-Pair Ethernet Study Group.**

**M: Peter Jones**

**S: Steve Carlson**

**Motion Passes by unanimous consent (Technical  $\geq$  75%)**

The group then considered CSD\_3GT10M\_01\_11102021\_in.pdf, cleaned up the remaining yellow text and created CSD\_3GT10M\_01\_11102021\_out.pdf. Following that discussion, the following motion was offered:

**Motion #3:** Adopt CSD responses as shown in CSD\_3GT10M\_01\_11102021\_out.pdf.

**M:** Steve Carlson

**S:** Bob Voss

**Motion Passes by unanimous consent (Technical  $\geq$  75%)**

The group then considered PAR\_3GT10M\_01\_11102021\_in.pdf, cleaned up the text relating to 1000Mb/s (understanding that if 1000 Mb/s were later added, the draft PAR would need to be modified as well) and created PAR\_3GT10M\_01\_11102021\_out.pdf. Following that discussion, the following motion was offered:

**Motion #4:** Adopt PAR text as shown in PAR\_3GT10M\_01\_11102021\_out.pdf

**M:** Steve Carlson

**S:** Harold Mueller

**Motion Passes by unanimous consent (Technical  $\geq$  75%)**

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

**The Meeting was adjourned at 12:03 PM US EST on November 10, 2021**

*Appendix A: IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group, November 10, 2021. (highlights indicate those present on one list and not the other)*

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>	<b>IMAT</b>	<b>WebEx</b>
Akin, Sami	Volkswagen AG	Volkswagen Ag	X	X
Aronson, Joseph	Texas Instruments Inc.	Texas Instruments Inc.	X	X
Baggett, Tim	Microchip Technology, Inc.	Microchip Technology, Inc.	X	X
Beaudoin, Denis	Texas Instruments Inc.	Texas Instruments Inc.	X	X
Borda, jamila josip	BMW Group	BMW Group	X	X
Boyer, Rich	Aptiv - Signal and Power Solutions	Aptiv Signal and Power Solutions	X	X
Brandt, David	Rockwell Automation	Rockwell Automation	X	X
Brychta, Michal	Analog Devices Inc.	Analog Devices Inc.	X	X
Buchanan, Rory	ON Semiconductor	ON Semiconductor	X	X
Carlson, Steven	High-Speed Design Inc.	HSD, Robert Bosch GmbH, Ethernovia	X	X
Diminico, Christopher	xM C Communications, LLC	Panduit Corp.	X	X
Dube, Kathryn	UNH-IOL	UNH-IOL	X	X
Feyh, German	Broadcom Corporation	Broadcom Corporation	X	X
Fischer, Peter	BKS Kabel-Service AG	BKS Kabel-Service AG	X	X
Franchuk, Brian	Emerson Automation Solutions	Emerson Automation Solutions	X	X
Fritsche, Matthias	HARTING Technologie Gruppe	HARTING Electronics GmbH	X	X
Gao, Xiangrong		Huawei	X	
Goergen, Joel	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Graber, Steffen	Pepperl+Fuchs SE	Pepperl+Fuchs SE	X	X
Gubow, Martin	Keysight Technologies	Keysight Technologies	X	X
Haasz, Jodi	IEEE - Institute of Electrical and Electronics Engineers	IEEE Standards Association (IEEE-SA)	X	X
Hartmann, Stephan	Siliconally GmbH	Siliconally GmbH	X	X
Hess, David	CORD DATA	Cord Data / Cord Data	X	X
Huszk, Gergely	Self	KONE	X	X
Jimenez, Andrew	Anixter Inc.	Anixter Inc.	X	X
Jones, Chad	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Jones, Peter	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell	X	X
Kamino, John	OFS	OFS	X	X
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.	X	X

Name	Employer	Affiliation	IMAT	WebEx
Kobayashi, Shigeru	AIO Core	AIO Core	X	
Larsen, Wayne		CommScope	X	X
Laubach, Mark	IEEE member / Self Employed	IEEE member / Self Employed	X	X
Lee, Sylvanus	Leviton Manufacturing Co.	Leviton Manufacturing Co.	X	X
Lennartsson, Kent	Kvaser AB	Kvaser AB	X	X
Lewis, Jon	Dell Technologies	Dell Technologies	X	X
Liu, Hai-Feng	HG Genuine	HG Genuine	X	X
Maguire, Valerie	The Siemon Company	The Siemon Company	X	X
Mcclellan, Brett	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Mueller, Harald	Endress + Hauser	Endress + Hauser	X	X
Mueller, Thomas	Rosenberger	Rosenberger	X	X
Murray, Brian	Analog Devices Inc.	Analog Devices	X	X
Neulinger, Christian	MD Elektronik	MD Elektronik	X	X
Nikolich, Paul	Paul Nikolich	Self Employed	X	X
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
peng, semmy		Huawei Technologies Co., Ltd	X	X
Potterf, Jason	Cisco Systems, Inc.	Cisco Systems, Inc.	X	X
Rabinovich, Rick	Keysight Technologies	Keysight Technologies	X	X
Renteria, Victor	Bel Fuse	Bel Fuse	X	X
Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated	X	X
Schreiner, Stephan		Rosenberger	X	X
Schweitz, Laura	Turck Inc.	Turck Inc.	X	X
Sedarat, Hossein	Ethernovia	Ethernovia	X	X
sisk, jason	University of New Hampshire InterOperability Laboratory (UNH-IOL)	University of New Hampshire InterOperability Laboratory (UNH-IOL)	X	X
Stewart, Heath	Analog Devices Inc.	Analog Devices Inc.	X	X
Sun, Wensheng	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Sun, Yi		OFS	X	X
Sydow, Carsten		Maxlinear Corp	X	X
Thompson, Geoff	Self	Self	X	X
Tremblay, David	Hewlett Packard Enterprise	Hewlett Packard Enterprise	X	X
Vanderlaan, Paul	UL LLC	UL LLC	X	X
Voss, Robert	Panduit Corp.	Panduit Corp.	X	X
Wendt, Matthias	Signify	Signify	X	X
Withey, James	Fluke Corporation	Fluke Corporation	X	X
Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.	X	X
Xu, Dayin	Rockwell Automation	Rockwell Automation	X	X
Yamada, Osamu		Yazaki Corporation	X	X

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>	<b>IMAT</b>	<b>WebEx</b>
YASUKAWA, MASAKI	NEC Magnus Communications, Ltd.	NEC Magnus Communications, Ltd.	X	X
Zhang, Bo	Marvell Technology, Inc	Marvell Technology, Inc	X	X
Zhong, Qiwen	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd	X	
Zimmerman, George	CME Consulting	CME Consulting/ADI, APL Group, CommScope, Cisco Systems, Marvell, and SenTekse	X	X