

Unconfirmed Meeting Minutes: IEEE 802.3 Greater than 10 Mb/s Long-Reach Single
Pair Ethernet Study Group
January 19, 2022
Telephonic Interim

Prepared by Bob Voss

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group meeting convened at 9:03 AM (US CST), Wednesday January 19, 2022 by George Zimmerman, Study Group Chair.

Attendance is listed in Appendices A

Administrative Matters

Mr. Zimmerman announced that Bob Voss volunteered to serve as recording secretary for this meeting. He further asked Mr. Voss if he would agree to serve as permanent recording secretary for the study group. Mr. Voss agreed to provide this service, and the study group had no objection.

The Study Group Chair noted that introductions would be skipped.

George Zimmerman reviewed the agenda in https://www.ieee802.org/3/GT10MSPE/public/agenda_3GT10M_01_01192022.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 Study Group 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 by WebEx and IMAT and asked that participants add their affiliation to their WebEx names. If that was not possible, Mr. Zimmerman asked that they put a message to the group chat with their affiliation.

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

9:12 AM CST Mr. Zimmerman asked if any participant had not seen the Pre-PAR patent policy slides (agenda slide 11), none responded. Mr. Zimmerman reviewed the “Guidelines for IEEE SA Meetings” slide for the group.

9:13AM CST 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 Study Group was in the process and the process by which we will develop the standard. Slide 24

Liaisons: None

PRESENTATIONS:

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

At **9:26am CST**, presentations to the Study Group began.

Title: **Thoughts on Objectives,**

Presenter: **Steve Carlson, High Speed Design/Ethernovia, Robert Bosch**

This presentation may be found here

https://www.ieee802.org/3/GT10MSPE/public/carlson_3GT10MSPE_01_011922.pdf

The presenter discussed some criteria for choosing objectives and their potential impact on the project. There was some discussion with questions asked and answered.

At **9:39am CST**, presentations to the Study Group continued.

Title: **Early proposals for AXT for 100MBPS SPE,**

Presenter: **Wayne Larsen, CommScope.**

This presentation may be found here

https://www.ieee802.org/3/GT10MSPE/public/larsen_3GT10M_01_01192022.pdf

The presenter discussed alien crosstalk specifications and potential modifications from those adopted for 10BASE-T1L, in support of technical feasibility of the 500m reach objective. There was some discussion with questions asked and answered.

At **9:58am CST**, presentations to the Study Group continued.

Title: **Necessity of a Latency Objective**,

Presenter: **Dayin Xu, Rockwell Automation**

This presentation may be found here

https://www.ieee802.org/3/GT10MSPE/public/xu_3GT10MSPE_01_01192022.pdf

The presenter discussed and reviewed previous material on the need for a latency objective for control systems markets and provided an update on market sizing and access to the market segment which requires low latency.

At **10:41AM CST**, a straw poll was requested by the presenter.

“I would support the concept of a mode with ≤ 1.5 usec latency up to at least 100m.”

Room count: 42 (Webex)

Yes: 25

No: 2

Abstain: 9

At **10:45AM CST**, a second straw poll was requested by the presenter.

“I would support adding the following objective (worded as follows): “Define an optional link segment up to at least 100m length for operation with latency ≤ 1.5 usec.”

Room count: 42 (Webex)

Yes: 22

No: 7

Abstain: 7

At **10:52AM CST**, the presenter requested the following motion:

Adopt a latency objective as “Define an optional link segment up to at least 100m length for operation with latency ≤ 1.5 usec.”

M: Dayin Xu

S: Dave Brandt

Technical ($\geq 75\%$)

Chair suggested to mover/secondor to postpone calling this motion until the March plenary meeting due to limited time, and the likely need for a roll call vote, per the rules, given the straw poll responses.

MOTION WITHDRAWN

At **10:57AM CST**, the Chair then reviewed the Objectives, PAR, and CSD documents previously approved. The Chair then asked, "Is there any objection to pre-submission of 802.3dg draft PAR and CSDs for consideration by IEEE 802.3?" No dissenting members heard.

Next meeting

The Chair announced that unless further requests for presentation were heard, the next meeting would be at the IEEE 802 Plenary meeting in March 2022, to respond to comments on the PAR and CSDs.

Mr. Zimmerman noted that the agenda had been exhausted and adjourned the meeting
The Meeting was adjourned at 10:58AM US CST on January 19, 2022

Appendix A: IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group, December 8, 2021.

First Name	Last Name	Affiliation	WebEx	IMAT
Rob	Aekins	Legrand	X	
Sami	Akin	Volkswagen	X	X
Tim	Baggett	Microchip	X	X
Piergiorgio	Beruto	Canova Tech	X	X
rich	boyer	Aptiv	X	X
David	Brandt	Rockwell Automation	X	X
Michal	Brychta	Analog Devices	X	X
Rory	Buchanan	onsemi	X	X
Steve	Carlson	HSD, Bosch, Ethernovia	X	X
Clark	Carty	Cisco	X	X
John	DeAndrea,	II-Vi/Finisar	X	X
Peter	Fischer	BKS Kabel-Service AG	X	
Brian	Franchuk	Emerson	X	X
Matthias	Fritsche	HARTING	X	X
Martin	Glanzner	SEAE	X	X
Steffen	Graber	Pepperl+Fuchs	X	X
Dave	Hess,	Cord Data	X	X
Gergely	Huszk	Kone	X	X
Andy	Jimenez	Wesco	X	
Chad	Jones	Cisco	X	X
Peter	Jones	Cisco	X	X
Ragnar	Jonsson	Marvell	X	X
Lokesh	Kabra-Synopsys	Synopsys	X	X
Hans	Lackner	QoSCom	X	X
Wayne	Larsen	CommScope	X	X
Mark	Laubach	Self	X	X
Valerie	Maguire	Siemon Company	X	X
Larry	McMillan	Western Digital	X	X
Harald	Mueller	Endress+Hauser	X	X
Thomas	Mueller	Rosenberger	X	
Brian	Murray	Analog Devices	X	X
Sujan	Pandey	Huawei	X	X
Semmy	Peng	Huawei	X	
Ralf	Peteranderl	Rosenberger	X	X
Jason	Potterf	Cisco	X	X

First Name	Last Name	Affiliation	WebEx	IMAT
Hao	Ren	Huawei	X	X
Dieter	Schicketanz	Reutlingen University	X	X
Stephan	Schreiner	Rosenberger	X	X
Laura	Schweitz	Turk	X	X
Hossein	Sedarat	Ethernovia	X	X
Heath	Stewart	ADI	X	X
Wensheng	Sun	Marvell	X	X
Geoff	Thompson	GraCaSI S.A./self	X	X
Mike	Tu	Broadcom	X	X
Paul	Vanderlaan	UL	X	X
Bob	Voss	PANDUIT	X	X
James	Withey	Fluke	X	X
Peter	Wu	Marvell	X	
Dayin	Xu	Rockwell Automation	X	
Yumeng	Yang	Huawei	X	X
George	Zimmerman	CME Consulting/ADI, APL Group, Cisco, Commscope, Marvell, SenTekSe	X	X