

Unconfirmed Meeting Minutes: IEEE 802.3 Enhancements to Point-to-Point Single Pair Ethernet Study Group

June 23, 2021

Teleconference

Prepared by Chad Jones and George Zimmerman

Meeting was called to order 23 Jun 2021 at 7:04 am PDT by George Zimmerman, SPEP2P Study Group Chair

Attendance for the meeting is listed in Appendix A

Mr. Zimmerman appointed Mr. Chad Jones reporting secretary for the meeting

The Chair reviewed the agenda.

Please see: https://www.ieee802.org/3/SPEP2P/public/agenda_3SPEP2P_01a_06232021.pdf

The agenda was shown and approved by unanimous consent.

The Chair continued with the presentation agenda_3SPEP2P_01_04282021.pdf:

- 7:08AM PDT -- Mr. Zimmerman asked if anyone was attending from the press including those who would run a public blog on this meeting – there were no indications from the group.
- 7:08 AM PDT -- Mr. Zimmerman noted that there should be no recording or photography without permission.

7:11AM PDT **IEEE Patent Policy**, Mr. Zimmerman asked if anyone had not seen the patent slides recently, none responded.

Mr. Zimmerman then reviewed the Study Group patent slides with the group.

Mr. Zimmerman reviewed the IEEE SA Copyright slides and the IEEE SA Participation slides, including the “Individual Process” slide, call for non-compliant members to leave meeting, none left.

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

Mr. Zimmerman then continued review of the presentation, Big Ticket items for this meeting.

LIAISONS

No liaisons for the study group at this time

Attendance, Mr. Zimmerman advised the group that attendance will be taken from Webex attendee list

The Chair completed review of the agenda.

PRESENTATIONS

The Chair then moved to the presentations for the meeting.

Title: Higher Speed Upgrade Path for Process Automation (Ethernet-APL)
(7:20AM – 8:20AM PDT)

URL: https://www.ieee802.org/3/SPEP2P/public/graber_3SPEP2P_01a_06232021.pdf

Presenter: Steffen Graber, Pepperl+Fuchs

The presentation covered aspects of broad market potential, including discussions of requirements for process control, and offered some potential objectives for the project. There was discussion of the process control application and questions were asked and answered.

Title: Proposal for Objectives – Long Term long-reach P2P SPE (8:20AM – 8:35AM PDT)

URL: https://www.ieee802.org/3/SPEP2P/public/Fritsche_draft_objectives_longterm_3SPEP2P_06232021.pdf

Presenter: Matthias Fritsche, Harting

The presentation covered potential objectives, including 100 Mb/s and 1000 Mb/s PHYs at different reaches. Questions were asked and answered.

Title: Draft Objectives for MACMERGE and TSSI Enhancements (8:35AM – 9:05AM PDT)

URL: https://www.ieee802.org/3/SPEP2P/public/zimmerman_3SPEP2P_01_06232021.pdf

Presenter: George Zimmerman, CME Consulting/ADI, APL Group, CommScope, Cisco Systems, Marvell, and SenTekse

Discussion then began on points of potential consensus and further work on the objectives. The chair noted some of the discussion and calls for future presentations on an updated version (01a) of the presentation to be posted. (see last slide)

https://www.ieee802.org/3/SPEP2P/public/zimmerman_3SPEP2P_01a_06232021.pdf

These include:

On parameters – use 1 connector per 100m length. There was a comment that we might include an additional 2 connectors, e.g., for surge protection.

On the connectors issue, a Presentation was requested to explain assumptions associated with requirements.

Another comment recognized that distance varies with cabling parameters, and this may influence whether the cable is useful for a particular application. Particularly, does this mean different link segments, or is one a subset of the other? And particularly, the choice of cabling is related to Broad Market Potential.

There was also a request for discussion of mixed fiber/copper networks and how they relate in the overall applications & their requirements. This may be important to the broader 802.3 audience.

NOTE – The discussion could well have continued, but the allotted meeting time was exhausted.

One additional presentation on ISO/IEC 11801-1 Amd1 SPE Channels by Dieter Schicketanz and Peter Fischer was deferred to the next meeting of the study group.

Having exhausted the time, the Chair asked for participants to continue discussion on points of consensus on the reflector, and to consider presentations for the study group meeting during the plenary session.

THE MEETING ADJOURNED AT 9:07 AM PDT having exhausted allotted time.

Appendix A: Attendees at the IEEE 802.3 Enhancements to Point-to-Point Single Pair Ethernet Study Group, June 23, 2021.

Name	Employer	Affiliation
Brandt	David	Rockwell Automation
Breneisen	Michael	Telebyte SPE
Brychta	Michal	Analog Devices
Buchanan	Rory	ON Semiconductor
Fischer	Peter	BKS Kabel-Service AG
Franchuk	Brian	Emerson
Fritsche	Matthias	HARTING
Graber	Steffen	Pepperl+Fuchs
Hess	Dave	Cord Data
Hoffleit	Thorsten	Renesas
Hormmeyer	Bernd	Phoenix Contact
Huh	Woojung	Microchip
Huszak	Gergely	Kone
Jones	Chad	Cisco
Jones	Peter	Cisco
Kabra	Lokesh	Synopsys
Lackner	Hans	QoSCom GmbH
McCarthy	Mick	Analog Devices
Mueller	Harald	Endress+Hauser
Murray	Brian	Analog Devices
Potterf	Jason	Cisco
Schicketanz	Dieter	Reutlingen University
Schreiner	Stephan	Rosenberger
Schweitz	Laura	Turck
sun	wensheng	marvell
Thompson	Geoff	GraCaSI S.A.
Wu	Peter	Marvell
Xu	Dayin	Rockwell Automation
Zimmerman	George	CME Consulting/ADI, APL Group, Cisco, CommScope, Marvell, SenTekSe