IEEE 802.3
Call for Interest
Greater than 10 Mb/s long-reach point-to-point single pair Ethernet PHY (GT10MbLRPHY) call for interest
Closing Report

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ADI, APL Group, Cisco, CommScope, Marvell, SenTekSe

Electronic Plenary

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CFI Request

The work begun in the IEEE 802.3 Enhancements to Point-to-Point Single Pair Ethernet Study Group for a higher-speed long reach point-to-point single pair Ethernet has garnered significant interest in a variety of use cases for long reach at speeds above 10 Mb/s. The Study Group has also submitted an initial focused IEEE P802.3de "Enhancements to the MAC Merge function and the Time Synchronization Service Interface (TSSI) to include Point-to-Point 10 Mb/s Single Pair Ethernet" draft PAR for consideration at the July 2021 plenary session. Since approval of this PAR by the IEEE-SA Standards Board will result in the disbandment of the IEEE 802.3 Enhancements to Point-to-Point Single Pair Ethernet Study Group, this call for interest is to consider continuing the work investigating a potential project for one or more greater than 10 Mb/s point-to-point PHYs using single-pair media at reaches beyond the reach of the existing IEEE 802.3 single-pair PHYs at the same rate in a new Study Group.

Overview: Motivation

- Emerging use of Single Pair Ethernet in Operational Technology Networks has brought to the fore the need to begin work on the next stage of SPE growth for point-to-point.
  - This CFI is to continue the work of the SPEP2P study group on a long-term solution since the study group will terminate on the approval of the ‘near-term’ PAR proposed for 802.3de
- The study group is proposed to develop PAR, CSDs, and Project Documentation for Greater than 10 Mb/s long-reach point-to-point single pair Ethernet PHYs and Associated Powering

  Continue discussion on the uses of Single Pair Ethernet in Operational Technology Networks

  Continue discussions on the next steps and future roadmap of point-to-point Single Pair Ethernet for Operational Technology

  Resolve the rates, reaches, and essential features of the next step in pt-to-pt SPE

Issues remaining

- Continue discussion on the uses of Single Pair Ethernet in Operational Technology Networks
- Continue discussions on the next steps and future roadmap of point-to-point Single Pair Ethernet for Operational Technology
- Resolve the rates, reaches, and essential feature objectives of the next step in long-reach pt-to-pt SPE
- Consider issues of associated powering

Logistics

An overview presentation session was given on 21 July to support consensus building:

- Date – Wednesday, 21 July 2021
- Time – 1515-1600 UTC (8:15-9AM US Pacific Time)

CFI Presentation: https://www.ieee802.org/3/SPEP2P/public/SPE_long_term_cfi.pdf

Study Group Question…

Should a study group be formed to study Greater than 10 Mb/s long-reach point-to-point Single-Pair Ethernet PHYs and Associated Powering?

Y: 31

N: 1

A: 2

Call Count: 44

Results as of 9:54 AM PT

Straw Polls

I would participate in the “Greater than 10 Mb/s long-reach point-to-point Single-Pair Ethernet PHYs and Associated Powering” Study Group in IEEE 802.3

Tally: 26

I believe my affiliation would support my participation in the “Greater than 10 Mb/s long-reach point-to-point Single-Pair Ethernet PHYs and Associated Powering” Study Group in IEEE 802.3

Tally: 24

Results as of 9:54 AM PT

Motion

Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop Project Authorization Requests (PAR) and Criteria for Standards Development (CSD) responses for Greater than 10 Mb/s long-reach point-to-point Single-Pair Ethernet PHYs and Associated Powering

M: George Zimmerman

S: Harald Mueller

Questions?

Thank you!