

IEEE 802.3

Call for Interest

*Greater than 10 Mb/s long-reach point-to-point single pair  
Ethernet PHY (GT10MbLRPHY) call for interest*

Opening Report

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

Electronic Plenary

July 2021

# CFI Request

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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

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- 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

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- 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

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An overview presentation session will be given to support consensus building:

- Date – Wednesday, 21 July 2021
- Time – 1515-1600 UTC (8:15-9AM US Pacific Time)
  - (note the SPEP2P study group begins at 1400 UTC with other business)

Location – Webex:

<https://cmeconsulting.my.webex.com/cmeconsulting.my/j.php?MTID=m8b372255c093d71812d57186aa9ad3e9>

CFI Presentation: (to be posted at)

- [https://www.ieee802.org/3/SPEP2P/public/SPE\\_long\\_term\\_cfi.pdf](https://www.ieee802.org/3/SPEP2P/public/SPE_long_term_cfi.pdf)

Request to form Study Group will occur during the closing 802.3 WG Plenary

Questions?

Thank you!