

Greater than 50 Gb/s Bidirectional Optical Access PHYs Call for Interest Opening Report

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Background

- The origin of this work comes from network operators
 - Bidirectional optics are common in access networks
 - There is a need to standardize higher speeds
- Over the past few months, the bidirectional higher speed idea was socialized in several NEA sessions
 - Generally well received, with no obvious major issues raised
- Incidentally, SG15 has begun work on an amendment to G.9806 that would cover higher speed bidirectional fiber access links
 - There is a strong desire to coordinate with 802.3 efforts
 - It would be timely to start work on higher speed bidirectional optics

Call For Interest

- In the past, the IEEE 802.3 Ethernet Working Group has standardized bidirectional optical PHYs at speeds ranging from 100 Mb/s to 50 Gb/s over one single mode fiber, that are intended for optical access applications. Due to the growth of bandwidth demand, there is now a need for similar systems that run at higher speeds over the same fiber connections. This Call for Interest is to assess the support for the formation of a study group to explore the development of these higher speed bidirectional PHYs.

Logistics

- Consensus building Meeting
 - Tuesday, 12 July 2022
 - 20:00-21:30
 - Ballroom West - L4