

Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs Call for Interest Opening Report

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Background

- The origin of this work comes from network operators, who use bidirectional optics in their access networks, and want to standardize higher speeds
- There was an NEA session where the bidirectional higher speed idea was socialized
 - Generally well received, with no obvious major issues raised
- There was also a workshop between IEEE 802.3 and ITU-T SG15, where the optical access systems being standardized were discussed
 - One of the findings there was that the two groups should work to collaborate to specify bidirectional optics
- At the recent SG15 plenary, it was agreed to begin work on a new recommendation (G.9806) that would cover higher speed bidirectional fiber access links
 - This project is intended to work hand-in-hand with its counterpart in 802.3

Call For Interest

- In the past, the IEEE 802.3 Ethernet Working Group has standardized bidirectional optical PHYs running at 100Mb/s and 1Gb/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, such as 10 Gb/s and 25 Gb/s, over distances of at least 20 km. This Call for Interest is to assess the support for the formation of a study group to explore the development of these bidirectional PHYs.

Logistics

- **Consensus building Meeting**
 - Monday, 5 March 2018
 - 18:30-19:30
 - Grand Ballroom GH Entry