

Ethernet Access PMDs for
Central Office Consolidation
(Super-PON)
Call For Interest Opening Report

Claudio DeSanti, Google

San Diego, CA USA
9 July 2018

Introduction

- This call for interest comes from the desire of multiple operators to consolidate and rationalize their access infrastructure
- The idea has been first presented to the NEA group in January 2018
 - Significant interest recorded, no major issues raised
- The idea has been presented also to ITU-T Q2/SG15 and to FSAN (the Full Service Access Network group)
 - More operators expressed interest, no major issues raised
- The NEA group developed this CFI during its meetings and calls

Call For Interest

The IEEE 802.3 Ethernet Working Group continues to develop standards to scale the speed of Passive Optical Networks (PONs) and point-to-point access networks.

There is a growing need to further scale the coverage and reach of PONs to cover more customers at a greater distance from a Central Office.

There is also an opportunity to define a common optical infrastructure to support both point-to-multipoint (P2MP) and point-to-point (P2P) operations.

This means standardizing new Ethernet Access PMDs for P2MP and P2P operations over a common long reach optical infrastructure through cost effective wavelength division multiplexing techniques.

The Study Group intends to leverage existing PCS and PMA definitions and may consider defining a 2.5Gb/s EPON PCS and PMA for upstream operations.

This Call for Interest is to assess the support for the formation of a Study Group to explore the development of these new Ethernet Access PMDs.

Logistics

- Consensus building meeting
 - Tuesday July 10, 2018
 - 18:30 – 19:30
 - Harbor A/B – 2nd Level