

Super-PON Objectives

Draft

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Objectives

- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Support a BER of better than or equal to 10^{-12} at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support a passive point-to-multipoint ODN with a reach of at least 50 km with at least 1:64 split ratio per wavelength pair
- Support at least 16 wavelength pairs for point-to-multipoint PON operation
- Support the MAC data rate of 10Gb/s downstream
- Support the MAC data rates of 2.5Gb/s and 10Gb/s upstream
- Leverage existing EPON PCS and PMA to support the above MAC data rates
- Support tunable transmitters