Proposed Objectives

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Proposed objectives (1 of 2)

- Support a MAC data rate of 100 Gb/s
- Support a MAC data rate of 400 Gb/s
- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
- Support optional Energy-Efficient Ethernet operation
- Support a BER of better than or equal to 10^{-12} at the MAC/PLS service interface (or the frame loss ratio equivalent) for 100 Gb/s operation
- Support a BER of better than or equal to 10^{-13} at the MAC/PLS service interface (or the frame loss ratio equivalent) for 400 Gb/s operation

Proposed objectives (2 of 2)

- Define single-wavelength 100 Gb/s PHYs for operation over:
  - Duplex SMF with lengths up to at least 2 km
  - Duplex SMF with lengths up to at least 10 km
- Define four-wavelength 400 Gb/s PHYs for operation over:
  - Duplex SMF with lengths up to at least 2 km
  - Duplex SMF with lengths up to at least 10 km