

Adopted & Approve Objectives: 25 Gb/s Ethernet over Single-Mode Fiber

Approved by 802.3 WG and 802 EC at Jan 2016 Plenary Meeting

Adopted and Approved Objectives

- Support a MAC data rate of 25 Gb/s
- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum Frame Size of current IEEE 802.3 standard
- Support a BER of better than or equal to 10^{-12} at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support optional Energy-Efficient Ethernet operation
- Provide physical layer specification which support 25 Gb/s operation over at least 10 km on SMF.
- Provide physical layer specification which support 25 Gb/s operation over at least 40 km on SMF.
- Provide appropriate support for OTN