

Adopted Objectives

- Adopted by IEEE P802.3cn TF Nov 2018.
- Approved by IEEE 802.3 WG Nov 2018.

- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum FrameSize of current Ethernet standard
- Provide appropriate support for OTN

50 Gb/s Ethernet

- Support a MAC data rate of 50 Gb/s
- Support a BER of better than or equal to 10^{-12} at the MAC/PLS service interface (or the frame loss ratio equivalent) for 50 Gb/s
- Provide a physical layer specification which supports 50 Gb/s operation over at least 40 km of SMF

200 Gb/s Ethernet

- Support a MAC data rate of 200 Gb/s
- Support a BER of better than or equal to 10^{-13} at the MAC/PLS service interface (or the frame loss ratio equivalent) for 200 Gb/s
- Provide a physical layer specification supporting 200 Gb/s operation over four wavelengths capable of at least 40 km of SMF

400 Gb/s Ethernet

- Support a MAC data rate of 400 Gb/s
- 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
- Provide a physical layer specification supporting 400 Gb/s operation over eight wavelengths capable of at least 40 km of SMF