Project Objectives

- Support a MAC data rate of 200 Gb/s
- 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)
- 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
- Provide physical layer specifications which support 200 Gb/s operation over:
    - At least 500 m of 4-lane parallel SMF
    - At least 2 km of SMF
    - At least 10 km of SMF
- Provide physical layer specifications which support 400 Gb/s operation over:
    - At least 100 m of MMF
    - At least 500 m of SMF
    - At least 2 km of SMF
    - At least 10 km of SMF
- Specify optional Energy Efficient Ethernet (EEE) capability
- Support optional Attachment Unit Interfaces for chip-to-chip and chip-to-module applications

Approved by IEEE 802.3 WG, 17-Mar-2016