Adopted Objectives

(Approved by IEEE 802.3 Working Group May 21, 2020)

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force

Objectives

- 1. Support a MAC data rate of 100 Gb/s, 200 Gb/s and 400 Gb/s
- 2. Support full-duplex operation only
- 3. Preserve the Ethernet frame format utilizing the Ethernet MAC
- 4. Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
- 5. Provide appropriate support for OTN
- 6. 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
- 7. 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 and 400 Gb/s operation

Objectives

- 8. Define a physical layer specification that supports 100 Gb/s operation over 1 pair of MMF with lengths up to at least 50 m
- 9. Define a physical layer specification that supports 200 Gb/s operation over 2 pairs of MMF with lengths up to at least 50 m
- 10. Define a physical layer specification that supports 400 Gb/s operation over 4 pairs of MMF with lengths up to at least 50 m