

Adopted Objectives

- 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*

100 Gb/s Ethernet

- Support a MAC data rate of 100 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 100 Gb/s **
- Provide a physical layer specification supporting 100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system. **

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***
- Provide a physical layer specification supporting 400 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.***

* - Adopted by SG Jan 2018 Interim. Not approved by IEEE 802.3 WG.
** - Adopted by SG Mar 2018 Plenary. Not approved by IEEE 802.3 WG.
*** - Adopted by SG May 2018 Interim. Not approved by IEEE 802.3WG.
Approved by IEEE 802.3 WG - July 2018 Plenary