Adopted Objectives

* - 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.

- **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.*****