

50 Gb/s Ethernet and NG 100 Gb/s and 200 Gb/s Ethernet Foundational Objectives

Kent Lusted, Intel
Mark Nowell, Cisco

50 Gb/s Ethernet Foundational Objectives

- Support a MAC data rate of 50 Gb/s
- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
- Support a BER of better than or equal to 10^{-13} at the MAC/PLS service interface (or the frame loss ratio equivalent) for 50 Gb/s operation
- Support optional Energy-Efficient Ethernet operation
- Provide appropriate support for OTN

200 Gb/s Ethernet Foundational Objectives

{assume same base as 50 Gb/s}

- 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 operation

100 Gb/s Ethernet Foundational Objectives

{assume same base as 50 Gb/s}

- 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 operation