

Proposed Objectives for 200GMMF Study Group

Eric Bernier (Huawei), Mabud Choudhury (Lightera), Ernest Muhigana (Macom), Ramana Murty (Broadcom), Roberto Rodes (Coherent), Helen Xu (Huawei)

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Proposed Objectives (1 of 3)

- **Non-Rate Specific**

- 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)

Proposed Objectives (2 of 3)

- **200 Gb/s Related**

- Support a MAC data rate of 200 Gb/s
- Define a physical layer specification that supports 200 Gb/s operation:
 - over 1 pair of MMF with lengths up to at least 30 m
 - over 1 pair of MMF with lengths up to at least 50 m

- **400 Gb/s Related**

- Support a MAC data rate of 400 Gb/s
- Define a physical layer specification that supports 400 Gb/s operation:
 - over 2 pairs of MMF with lengths up to at least 30 m
 - over 2 pairs of MMF with lengths up to at least 50 m

Proposed Objectives (3 of 3)

- **800 Gb/s Related**

- Support a MAC data rate of 800 Gb/s
- Define a physical layer specification that supports 800 Gb/s operation:
 - over 4 pairs of MMF with lengths up to at least 30 m
 - over 4 pairs of MMF with lengths up to at least 50 m

- **1.6 Tb/s Related**

- Support a MAC data rate of 1.6 Tb/s
- Define a physical layer specification that supports 1.6 Tb/s operation:
 - over 8 pairs of MMF with lengths up to at least 30 m
 - over 8 pairs of MMF with lengths up to at least 50 m