# **Proposed Objectives – Modified P802.3df PAR**

### **IEEE P802.3df Task Force**

John D'Ambrosia, Chair, IEEE P802.3df Task Force Futurewei, U.S. Subsidiary of Huawei

Mark Nowell Vice-Chair, IEEE P802.3df Task Force Cisco

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## **Proposed Objectives**

#### 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)
- Provide support to enable mapping over OTN

#### 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 4 pairs of SMF with lengths up to at least 2 km

#### 800 Gb/s Related

- Support a MAC data rate of 800 Gb/s
- Support optional eight-lane 800 Gb/s attachment unit interfaces for chip-to-module and chip-to-chip applications
- Define a physical layer specification that supports 800 Gb/s operation:
  - over eight lanes of twin axial copper cables with a reach up to at least 2 meters
  - over eight lanes over electrical backplanes supporting an insertion loss ≤ 28dB at 26.56GHz
  - over 8 pairs of MMF with lengths up to at least 50 m
  - over 8 pairs of MMF with lengths up to at least 100 m
  - over 8 pairs of SMF with lengths up to at least 500 m
  - over 8 pairs of SMF with lengths up to at least 2 km

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