

# Study Group Objectives

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- Support subscriber access network topologies:
  - Point to multipoint on optical fiber
  - Point to point on optical fiber
  - Point to point on copper
- Provide a family of physical layer specifications:
  - 1000BASE-X extended temperature range optics
  - 1000BASE-X  $\geq 10\text{km}$  over single SM fiber
  - PHY for PON,  $\geq 10\text{km}$ , 1000Mbps, SM fiber,  $\geq 1:16$
  - PHY for single pair non-loaded voice grade copper distance  $\geq 2500\text{ft}$  and speed  $\geq 10\text{Mbps}$  aggregate
- Support far-end OAM for subscriber access networks:
  - Remote Failure Indication
  - Remote Loopback
  - Link Monitoring