

Study Group Objectives (1)

- 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 ≥ 10 km over single SM fiber
 - PHY for PON, ≥ 10 km, 1000Mbps, SM fiber, $\geq 1:16$
 - PHY for single pair non-loaded voice grade copper distance ≥ 2500 ft and speed ≥ 10 Mbps aggregate
- Support far-end OAM for subscriber access networks:
 - Remote Failure Indication
 - Remote Loopback
 - Link Monitoring

Study Group Objectives (2)

The point-to-point copper PHY shall recognize spectrum management restrictions imposed by operation in public access networks, including:

- Recommendations from NRIC-V (USA)
- ANSI T1.417-2001 (for frequencies up to 1.1MHz)
- Frequency plans approved by ITU-T SG15/Q4, T1E1.4 and ETSI/TM6

- Technical $\geq 75\%$ Y:72 N:0 A:17 PASS