10Gb/s on FDDI-grade MMF Cable

Strawman Objectives – Discussion
Objectives (Strawman)

- Preserve the 802.3/Ethernet frame format at the MAC Client service interface
- Preserve min. and max. frame size of current 802.3 Std.
- Support full duplex operation only
- Support star-wired local area networks using point-to-point links and structured cabling topologies
- Support a speed of 10,000 Gb/s at the MAC/PLS service interface
- Support fiber media selected from ISO/IEC 11801:2002
Objectives (Strawman)

• Support a BER of better than $10^{-12}$
• To not support 802.3ah (EFM) OAM unidirectional operation
• To support 802.3ah (EFM) extended temperature range options
• Provide a single Physical Layer specification which supports a link distance of:
  – At least 300m over at least 95% of installed, FDDI-grade MMF
  – At least 300m over at least 95% of new MMF (OM3)
• Support existing 10GBASE-R PCS and PMA