

Project Objectives

Marek Hajduczenia, ZTE Corp

marek.hajduczenia@zte.pt

Project Objectives

- » Support subscriber access networks using point-to-multipoint topologies on optical fiber
- » EPON PHY(s) to have a BER better than or equal to 10^{-12} at the PHY service interface
- » Provide physical layer specifications:
 - > At least one PHY for 1G-EPON operating over single SM fiber-based point-to-multipoint topology
 - > At least one PHY for 10G-EPON operating over single SM fiber-based point-to-multipoint topology
- » Define parameters necessary to support power budgets in excess of power budget classes defined in IEEE Std 802.3-2008, Clause 60 for 1G-EPON and IEEE Std 802.3av-2009, Clause 75 for 10G-EPON, via definition of new PMDs or optical extender devices.