

10G-EPON PCS Options

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Question 1

- **Option 1: Do not create a new PCS**
 - If we need to refer to PCS specifically, we would say: “10GBASE-R extended for symmetric 10G-EPON” or “10GBASE-R extended for asymmetric 10G-EPON”
 - No changes to existing clause 92
- **Option 2: Create new PCS**
 - Option 2.a: Use different PCS types for OLT and ONUs
 - ONU PCS includes data detector, OLT doesn't
 - Option 2.b: Use the same PCS types for OLT and ONUs
 - In text we indicate that some functions are defined for ONU only

Question 3

- **Should we use new letters for 10G-EPON PHYs?**
- **Option 2.a.1: Yes**
 - 10GBASE-Q-D – new asymmetric 10G-EPON OLT PCS
 - 10GBASE-Q-U – new asymmetric 10G-EPON ONU PCS
 - 10GBASE-S-D – new symmetric 10G-EPON OLT PCS
 - 10GBASE-S-U – new symmetric 10G-EPON ONU PCS
- **Option 2.a.2: No**
 - 10GBASE-Q – new asymmetric 10G-EPON PCS
 - 10GBASE-S – new symmetric 10G-EPON PCS
- **Option 2.b.1: Yes**
 - 10GBASE-PRX-D – new asymmetric 10G-EPON OLT PCS
 - 10GBASE-PRX-U – new asymmetric 10G-EPON ONU PCS
 - 10GBASE-PR-D – new symmetric 10G-EPON OLT PCS
 - 10GBASE-PR-U – new symmetric 10G-EPON ONU PCS
- **Option 2.b.2: No**
 - 10GBASE-PRX – new asymmetric 10G-EPON PCS
 - 10GBASE-PR – new symmetric 10G-EPON PCS

Changes to the draft

- New title:
 - Change
“92. Extensions of the Reconciliation Sublayer (RS) and Physical Coding Sublayer (PCS) / Physical Media Attachment (PMA) for 10GBASE-PR and 10/1GBASE-PRX for multipoint links and forward error correction”
 - To
“92. Reconciliation Sublayer (RS), Physical Coding Sublayer (PCS), and Physical Media Attachment (PMA) for point-to-multipoint media, types 10GBASE-PR and 10/1GBASE-PRX”
- Figure 92-2 should be removed