

PMD Interface Options

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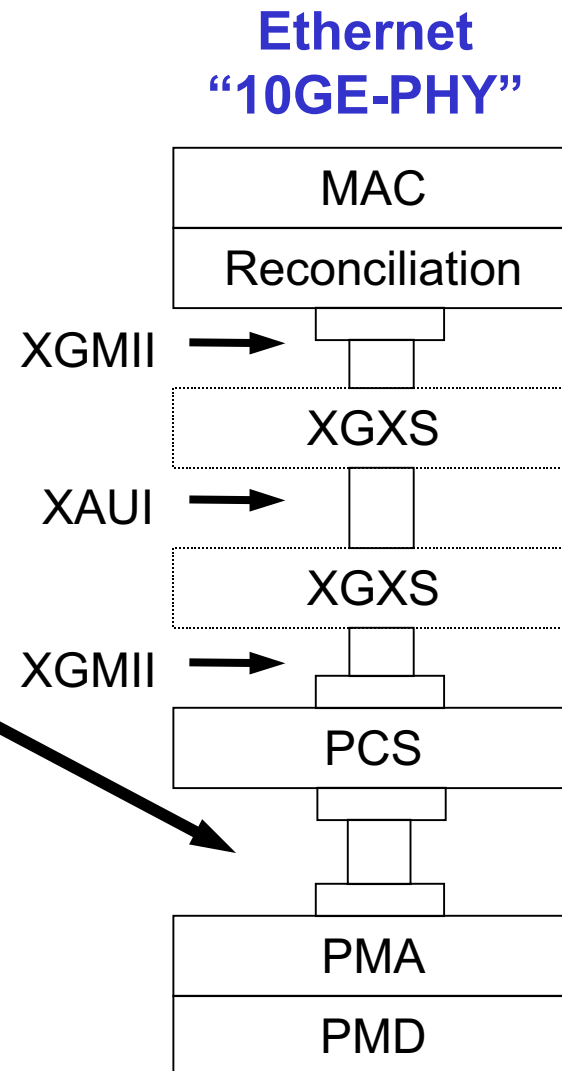
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PMD Interface Options

- XAUI as an XGMII Extender is reasonable.
- But what about the PMD I/F?
- It is best to leverage optics across multiple stacks
 - Across LAN/WAN PHYs would be good.
 - Leveraging optics beyond IEEE apps is best.
 - The list could be ---
10GE LAN & WAN, Fibrechannel, Infiniband, and short-reach SONET.
- This is difficult if optics pull in PCS sublayer.
 - They become 802.3 specific.
- Let's make sure that both options are possible.
 - Optics with PCS and Optics without PCS.

Layer Diagram

- We need a standard interface here.
- Allows optics to be leveraged across multiple applications to lower-cost.
- Many PMD I/F Options:
 - HARI (4 x 3.125G)
 - Lucent SLP (16 x 625 or 4 x 2.5G)
 - Nortel SUPI (4 x 2.5G)
 - OIF SFI-4 (16 x 622)



PMD Interface Options

- Many PMD I/F options presented to date
 - HARI, Lucent SLP, Nortel SUPI, OIF SFI-4, ...
- Options not completely worked out
 - need to look into all.
- Of these I/F's --

OIF SFI-4 (16x622) is most mature today.