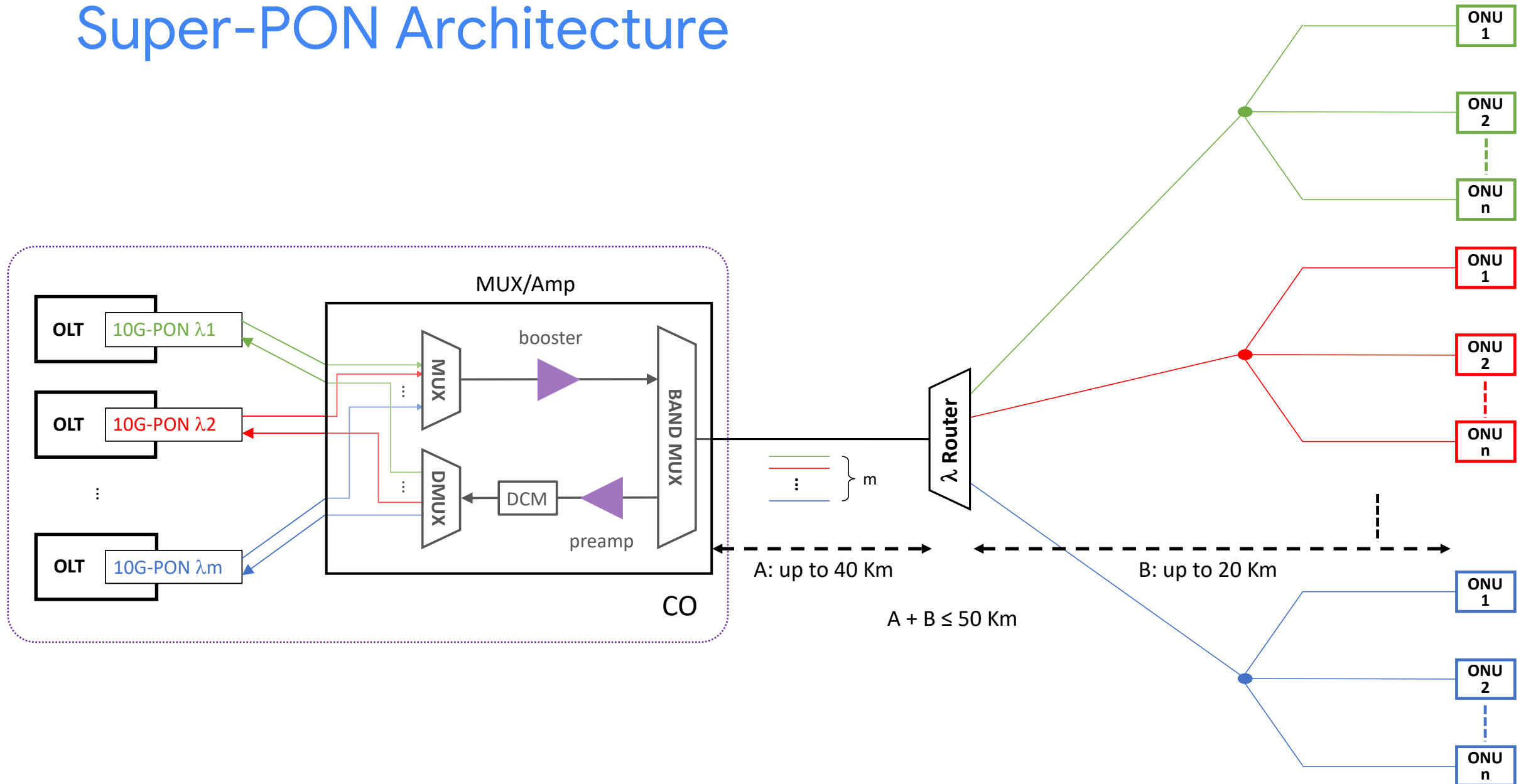


Specifying Super-PON

IEEE P802.3cs Ad Hoc Call – February 21, 2019

Claudio DeSanti (Google)

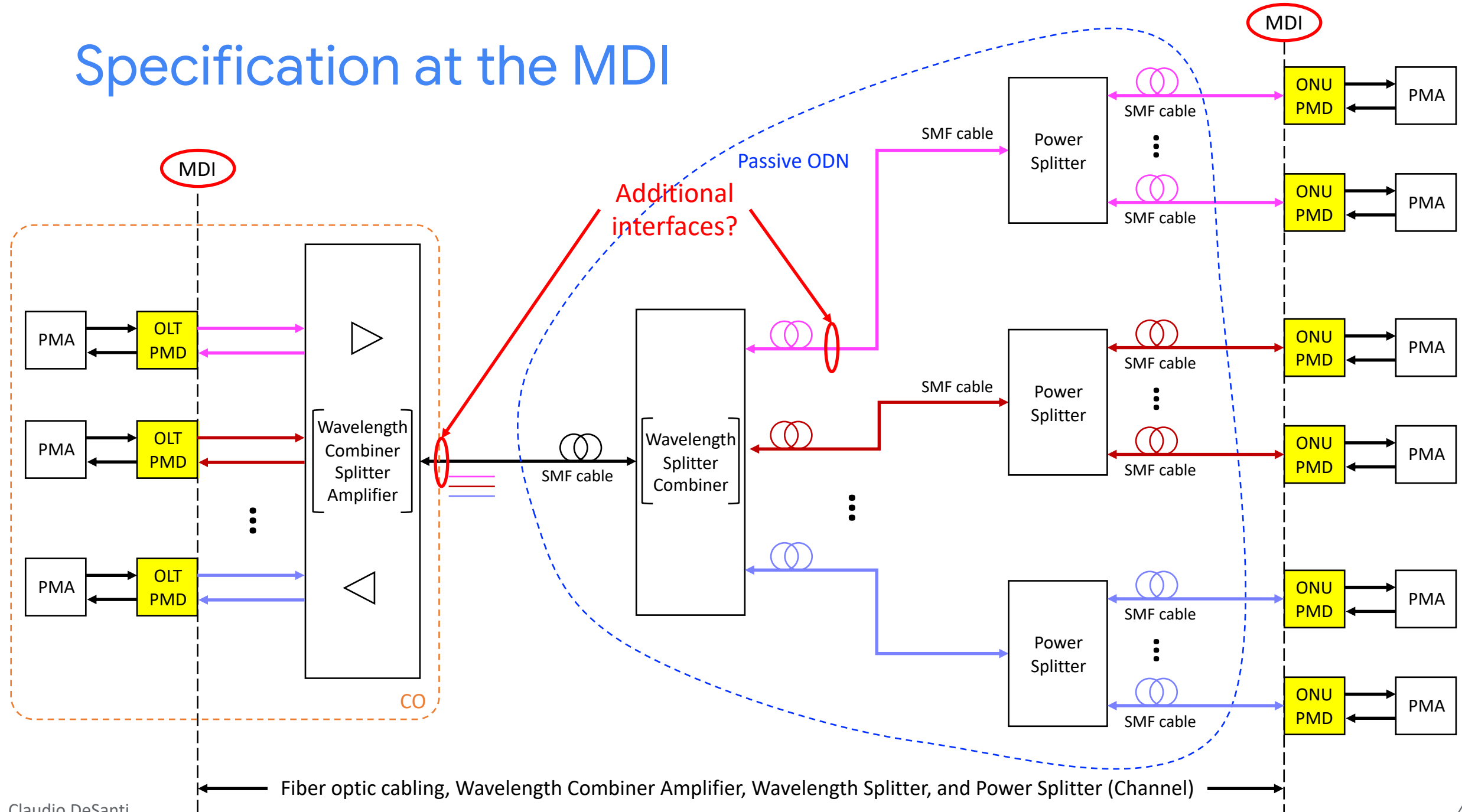
Super-PON Architecture



How to Specify Super-PON?

- 802.3 specifies PMDs at the MDI
- In Super-PON there are multiple devices between two MDIs
- How to specify the full system?

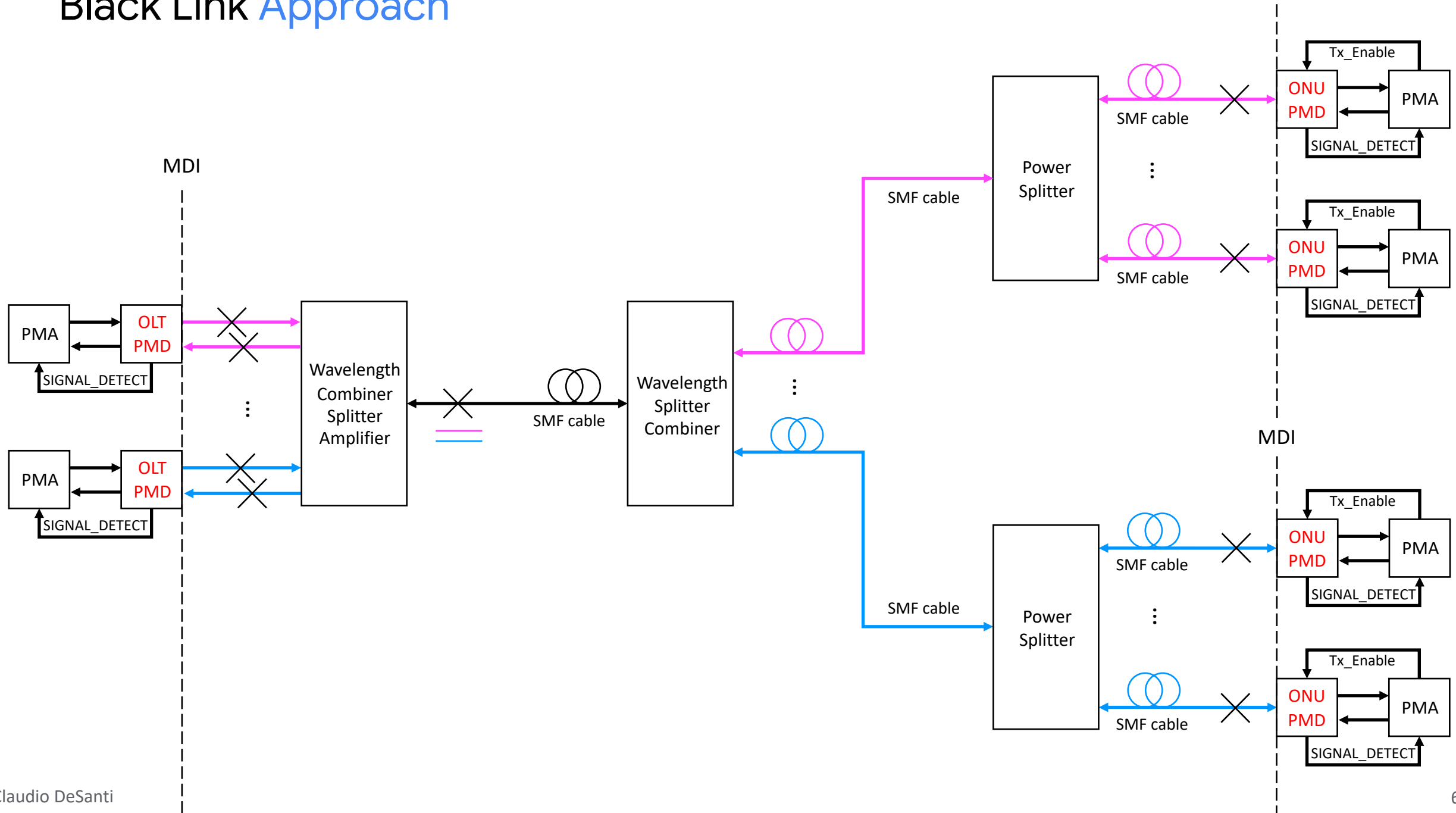
Specification at the MDI



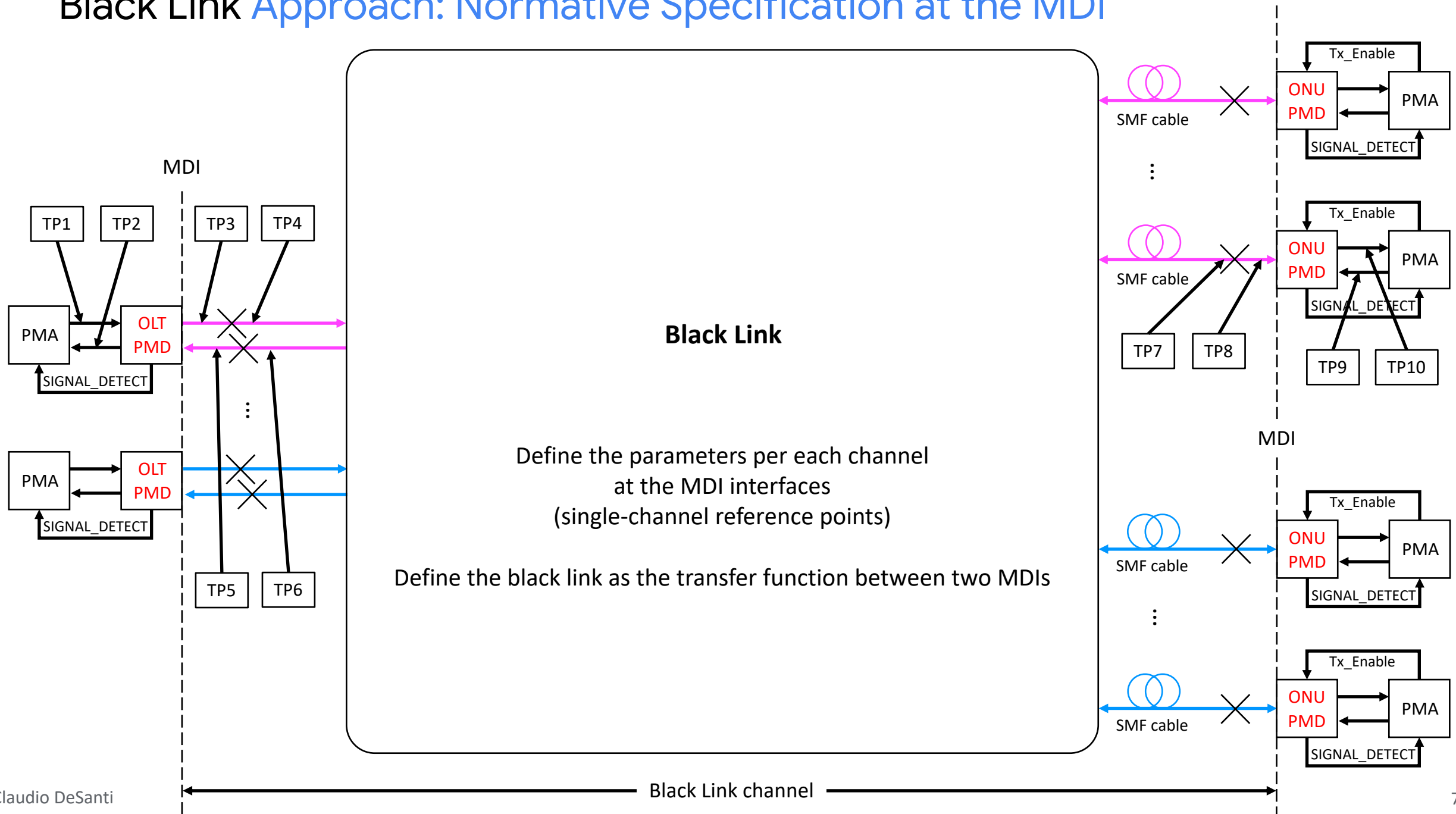
Proposal

- Use the 'Black Link' approach for the normative specification at the MDI
- Describe possible 'Black Link' examples as informative annexes

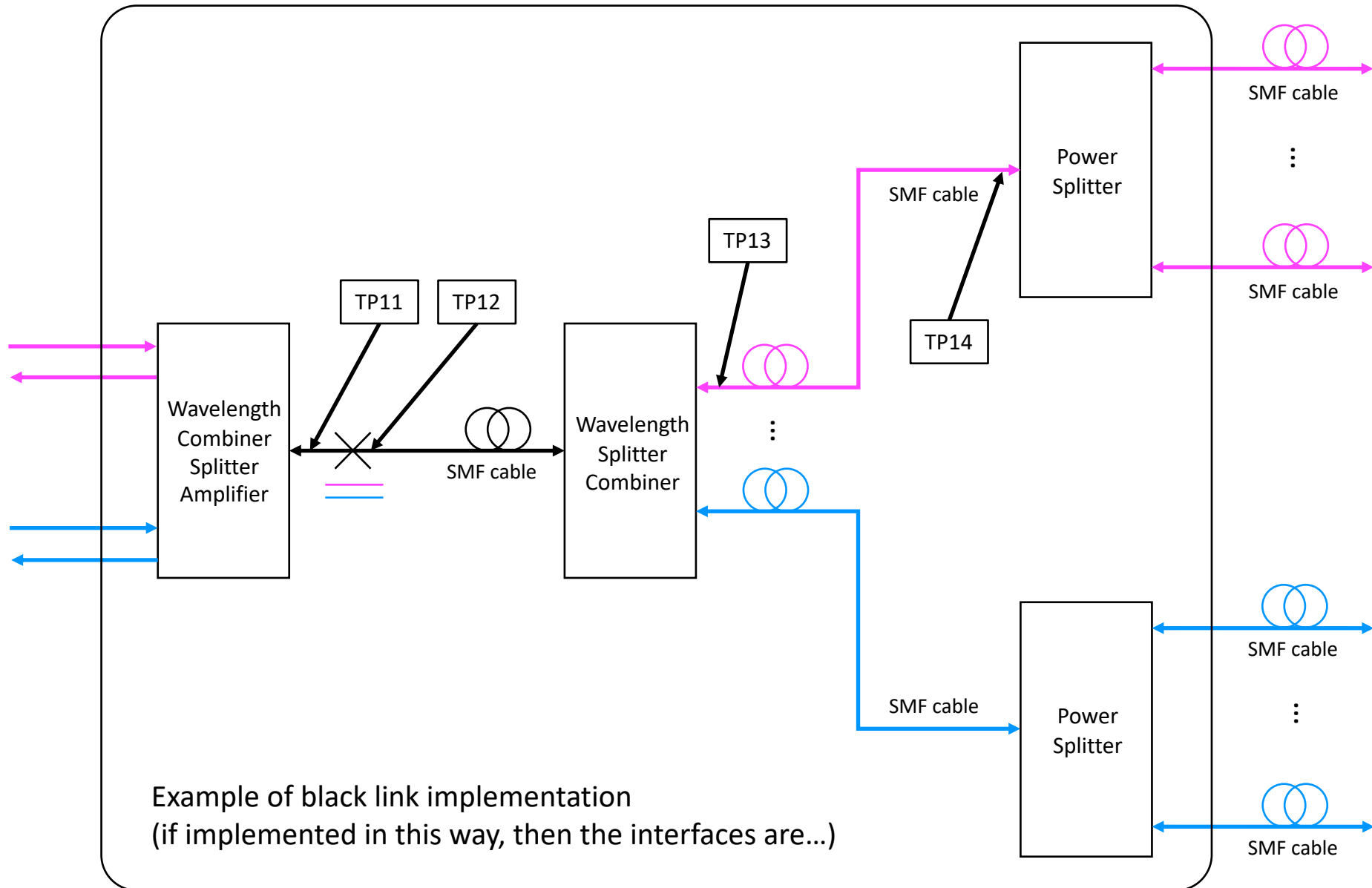
Black Link Approach



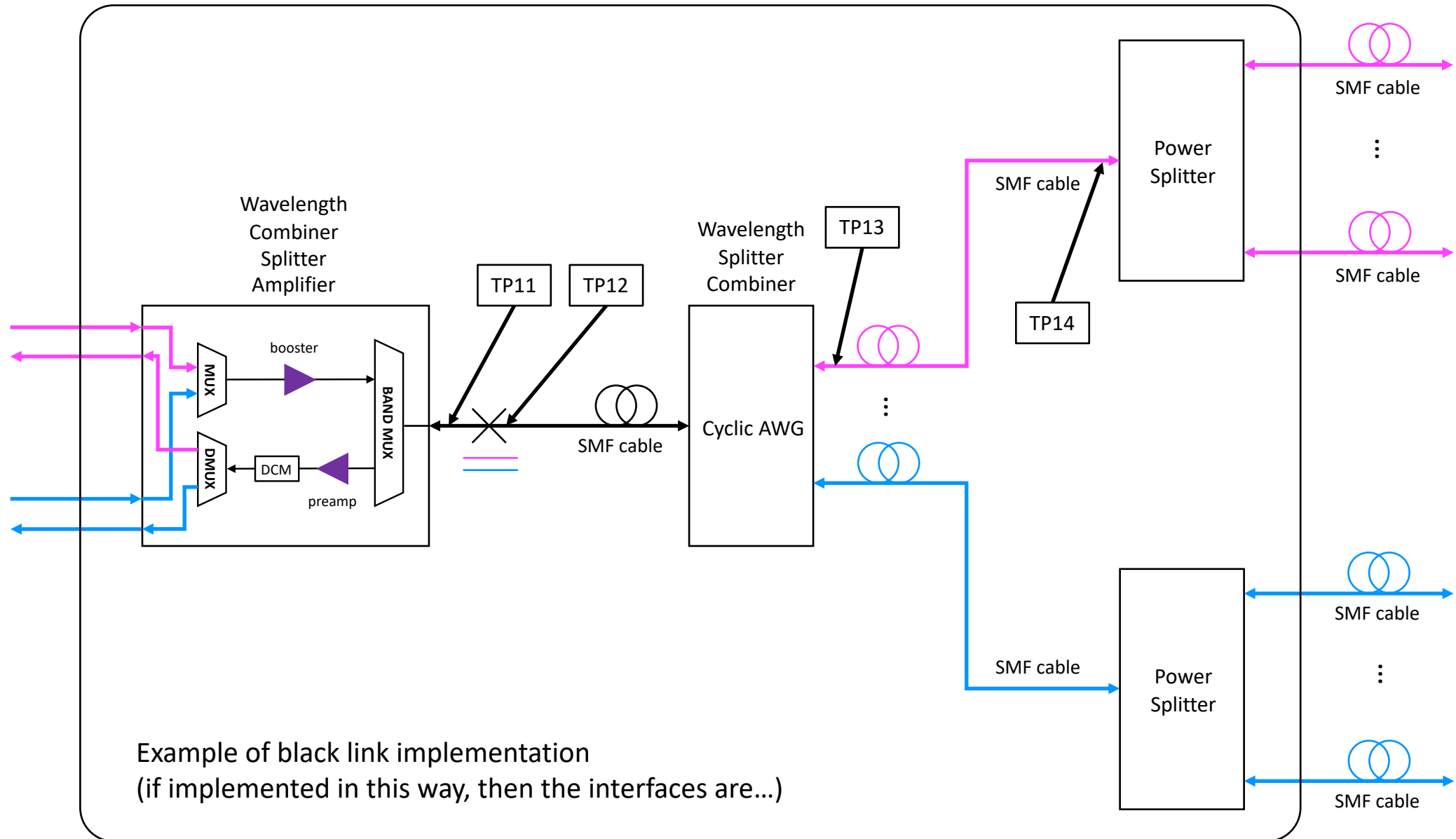
Black Link Approach: Normative Specification at the MDI



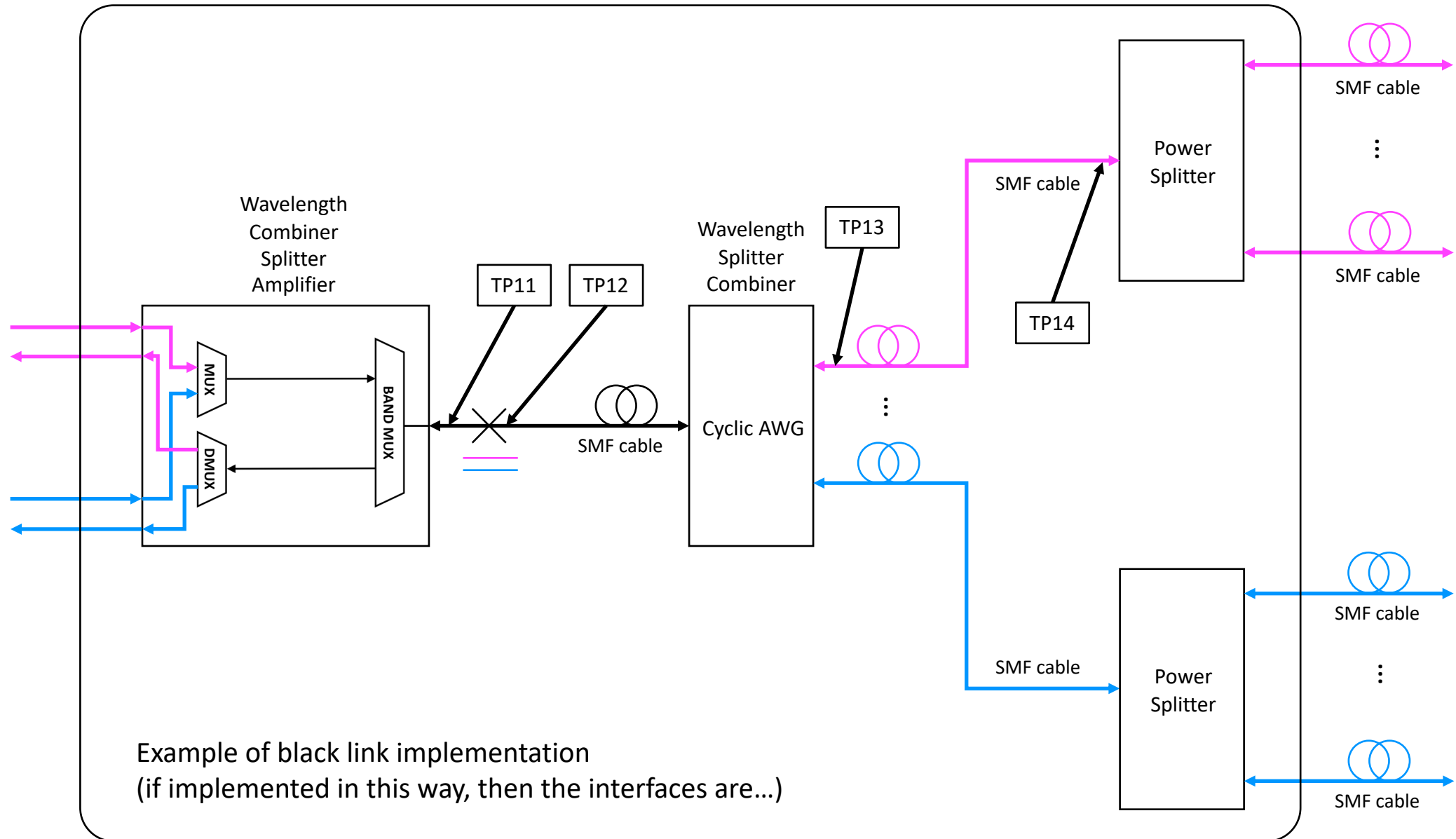
Black Link: Informative Description



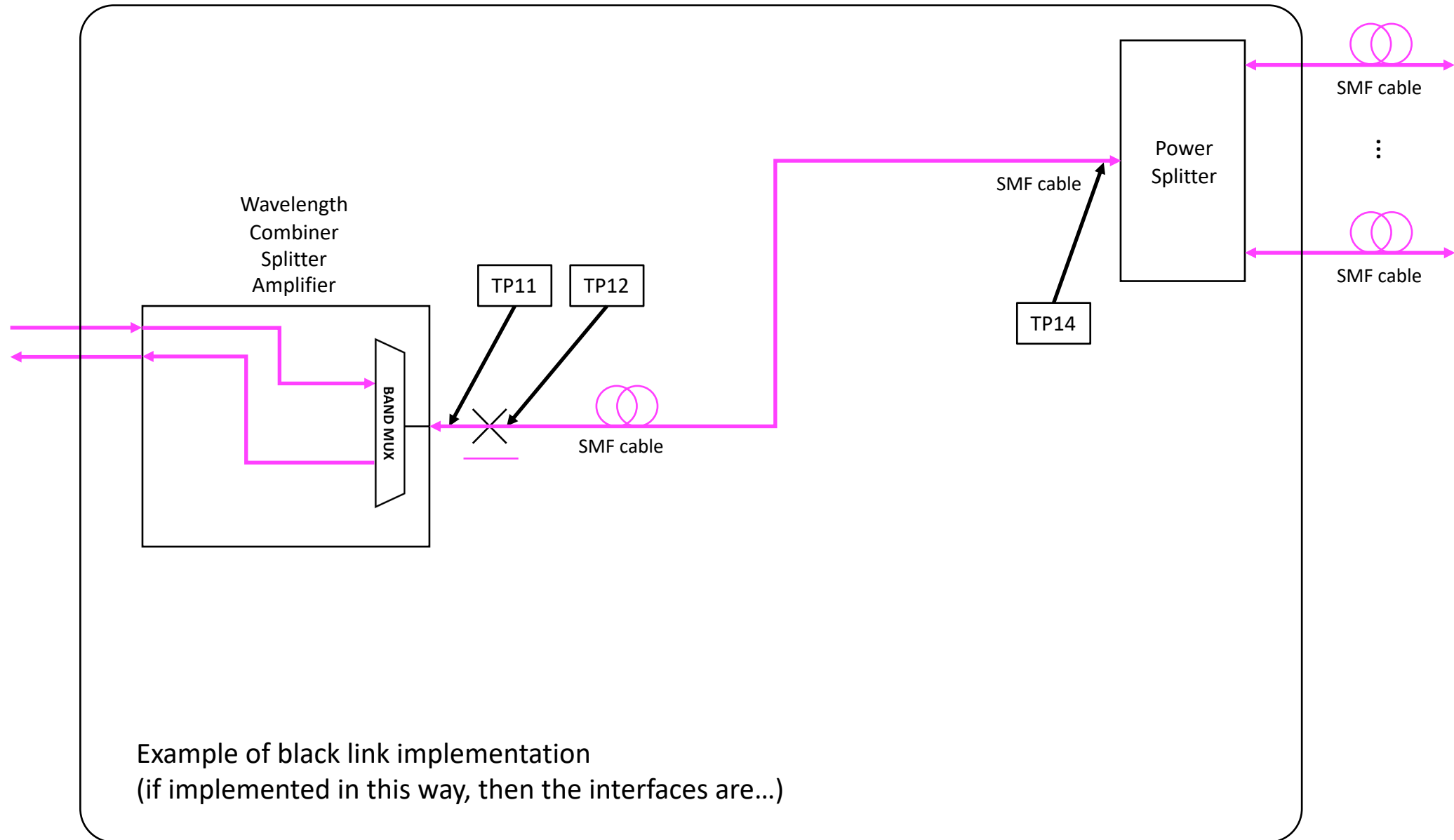
Black Link Description 1 (Informative)



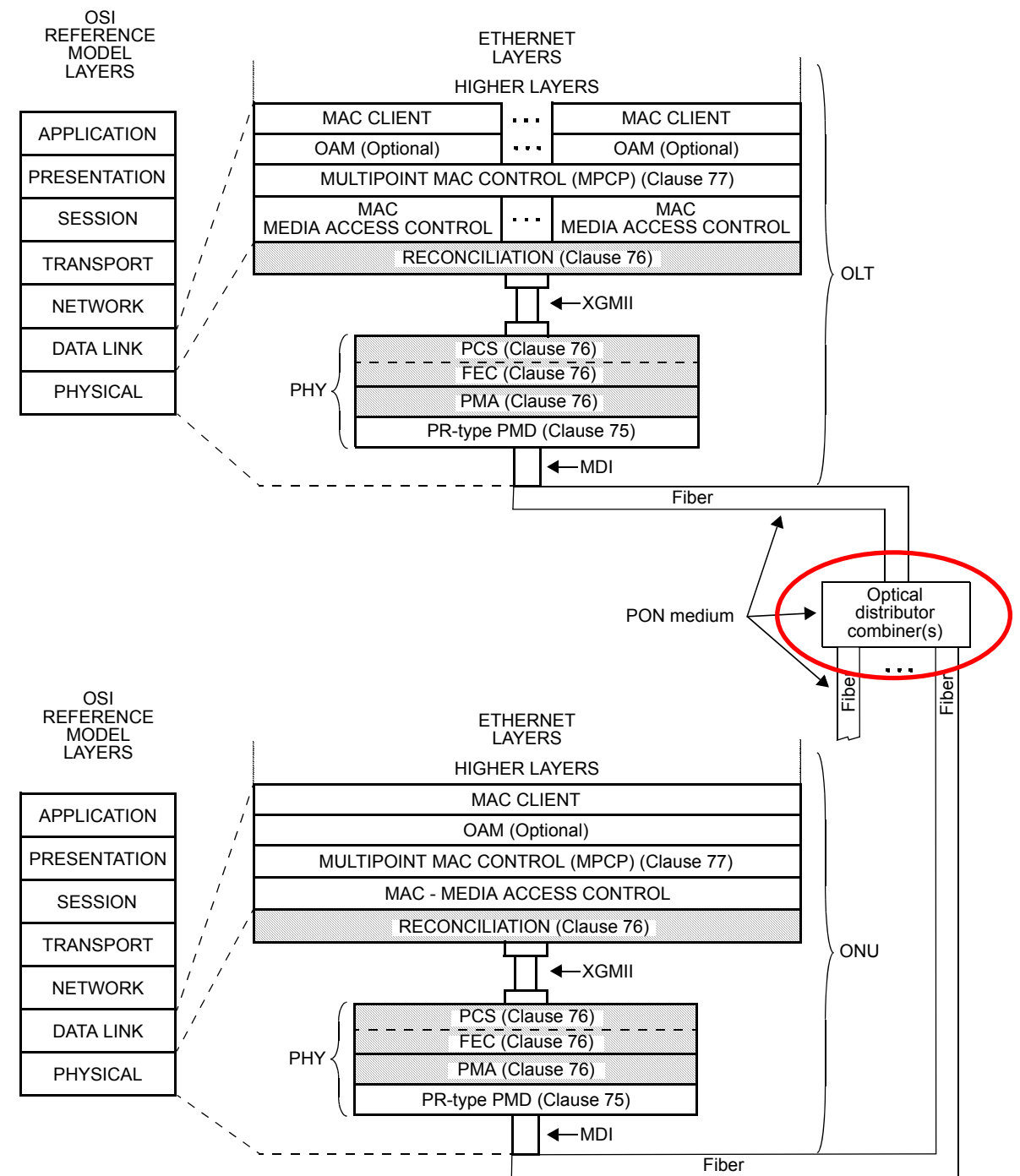
Black Link Description 2 (Informative)



Black Link Description 3 (Informative)



A Black Optical distributor combiner?



Thoughts?

Thank you!

Figure 75-3

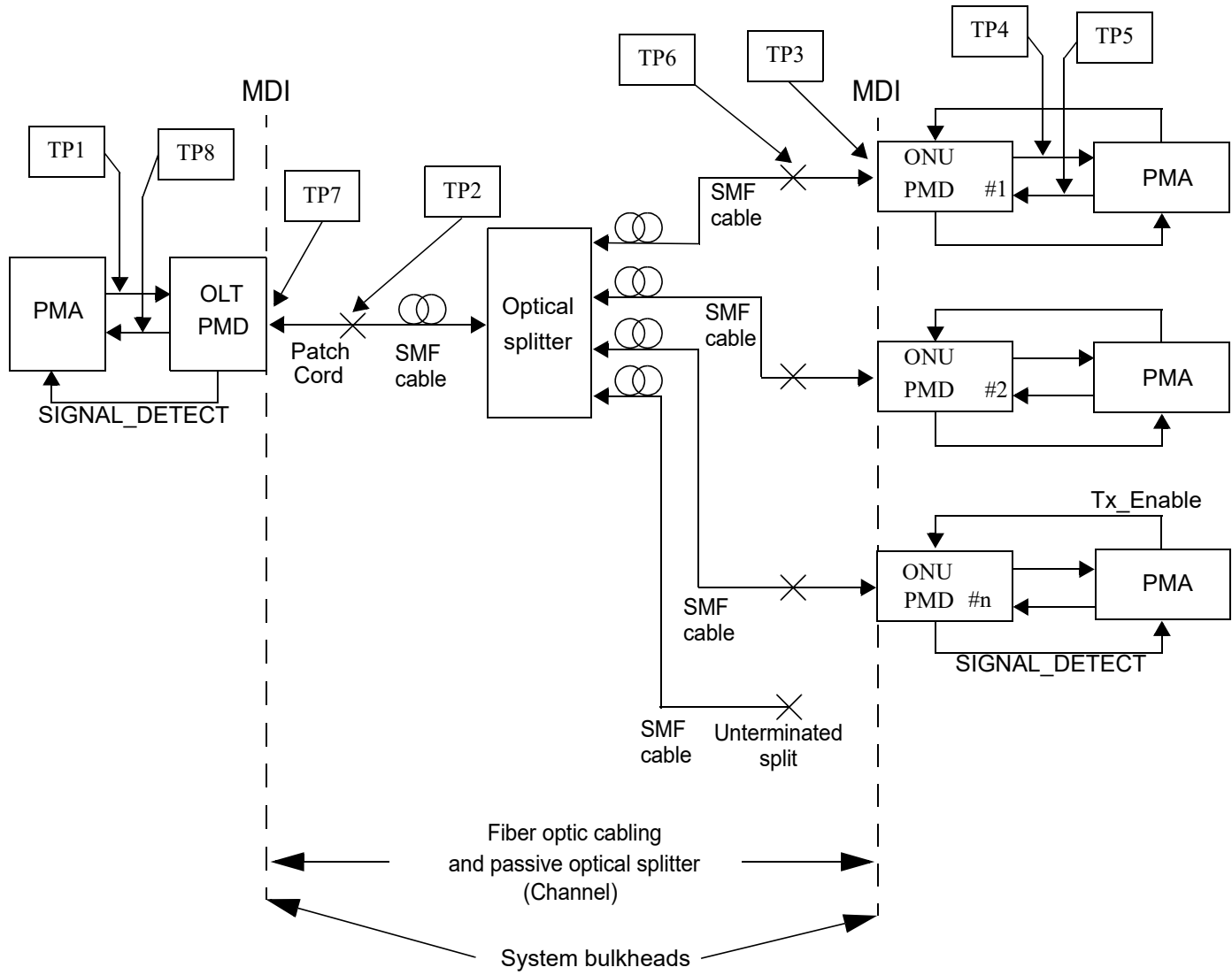


Figure 75-3—10GBASE-PR and 10/1GBASE-PRX block diagram