

Clause 141: PMD

- Major Items (big ticket items)

Item	Owner
1. Interface definition between PMD and PMA (primitives, interface type – serial versus parallel, etc.)	
2. Wavelength channel allocation (141.4)	
3. PMD to MDI optical specifications for OLT PMDs (141.5) – individual tables need to be filled in, need to decide on what parameters are mandatory and which are not	
4. PMD to MDI optical specifications for ONU PMDs (141.6) – individual tables need to be filled in, need to decide on what parameters are mandatory and which are not	
5. Definitions of optical parameters and measurement methods (141.7) – initial discussion was started, but we need much more, including details (reference model, reference points, especially for multi-lane system, measurement methods – description or reference to other groups, if available) <ul style="list-style-type: none"> a. Insertion loss does not need likely much effort (same reference as in 10G-EPON) b. Wavelength and spectral width measurement, Optical power measurements, Extinction ratio measurements, needs revision and confirmation it is OK as is, if RMS Is used c. Remaining subclauses need material (if applicable at all) 	
6. Environmental, safety, and labeling (141.8) needs review and reconfirmation these will be still applicable	
7. Characteristics of the fiber optic cabling (141.9) does need review and reconfirmation – it does not seem like new types of fiber cabling are used for PON, so it should be largely OK as is	
8. Names of PMDs, power budget classes, and mapping between them	

Clause 142: PCS

- As is, clause contains just some material copied from 10G-EPON PCS that is not likely going to change once line code selection is completed. Material needed to describe the following functions:

Item	Owner
1. Transmit direction and Receive direction operation (general block diagram)	
2. FEC encoding and FEC decoding	
3. Scrambler and Descrambler	
4. Gearbox just above PMA	
5. PMA operation	
6. Data Detector	
7. Data Synchronizer for ONU and OLT	
8. BER monitor on receive side	

- It is assumed that Idle Deletion / Insertion similar to 10G-EPON will not be needed due to operation of MPRS

Clause 143: MPRS

- State of Clause will be updated after content from November 2017 meeting is merged into the draft and D0.6 becomes available.

Clause 144: MPCP

- We have only MPCPDU definitions at this time, without actual operation of MPCP in NG-EPON system. Materials needed for the following items:

Item	Owner
1. MPCP in NG-EPON: Overview	
2. Multipoint MAC Control operation <ol style="list-style-type: none">a. Principles of Multipoint MAC Controlb. Multipoint transmission control, Control Parser, and Control Multiplexer	
3. Multipoint Control Protocol (MPCP) <ol style="list-style-type: none">a. Principles of Multipoint Control Protocolb. Discovery processingc. Report Processingd. Gate Processing	
4. Operation with asymmetric data rate	
5. Channel Control Protocol (CCP) and CCPDU definitions	