

# Baseline Proposal for technical decision #44

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# Summary

- 4 technical decisions passed in associated with DRA at the last meeting (#42, #43, #44, and #45)
- This slide deck summarizes the baseline proposal addressing technical decisions #44, affecting the operation of MPCP for Tx Idle Insertion
- Contribution garavaglia\_3bn\_02\_0513.pdf provides further detail, including text description, state diagrams, and all necessary definitions, included in agreed MPCP clause baseline

# Tx Idle Insertion (I)

- In the transmit direction, EPoC CNU and CLT shall support Idle Insertion process used by 10G-EPON, as defined in IEEE Std 802.3-2012, 77.2.2 (Figures 77-13 for CLT and 77-14 for CNU), with the following changes:
  - Function FEC\_Overhead shall be replaced with the function accounting for FEC and PHY overhead (tentative name: PMD\_Overhead) once FEC and PMD details are defined.
- The content of sub-clause 102.2.2 was modeled on Idle insertion mechanism from 10G-EPON, with changes as outlined on the next slides

# Tx Idle Insertion (II)

- In section 102.2.2.1, the values for FEC\_CODEWORD\_SIZE, FEC\_PAYLOAD\_SIZE and FEC\_PARITY\_SIZE are all TBD at this time
- In section 102.2.2.3
  - New variables PHY\_DATA\_SIZE and PHY\_OVERHEAD\_SIZE are added for data rate adaption and their relation is captured in EPoC de-rate equation 102-1. The values for these variables are TBD at this time
  - The definition of fecOffset variable is updated for data rate adaption
  - The variable OctetsRequired is generalized to both CLT and CNU
- In section 102.2.2.4, the function FEC\_Overhead() is replaced by a new function PMD\_Overhead(), which includes both FEC parity insertion and data rate adaption overhead components
- In section 102.2.2.5, State Diagrams 102-13 and 102-14 are updated by replacing FEC\_Overhead() function with PMD\_Overhead() function

# Motion #

- Adopt garavaglia\_3bn\_02\_0513.pdf (content of sub-clause 102.2.2) as baseline for draft D1.0 for Tx Idle Insertion at MPCP Multipoint Control Multiplexer.
- Moved by: Andrea Garavaglia
- Seconded by: Marek Hajduczenia
- Technical motion ( $\geq 75\%$ )