

IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

Source: IEEE 802.3 Working Group¹

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From: David Law Chair, IEEE 802.3 Ethernet Working Group
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Subject: Liaison status of progress at IEEE P802.3ca Orlando, Florida Session as related to change in PAR Objectives, FEC, and Line Coding

Approval: Agreed to at IEEE 802.3 Plenary Meeting, Orland, Florida, 9th November 2017

Dear Dr. Effenberger and Dr. Kani,

To support PON Convergence efforts and maintain an open communication channel between ITU-T SG15 Q2 and on-going IEEE P802.3ca Task Force efforts we are providing a status of progress from the November, 2017 Orlando, Florida meeting.

The IEEE P802.3ca Task Force has approved the following elements associated with the standards effort:

1. Updated specification with additional detail around MPRS –Multi-Point Reconciliation Sublayer: This is the adaptation layer between MAC and PHY (TC and PHY).
2. Adopted MLID – Management Logical Link ID (similar to ONU ID) assignment mechanism. (Performed during ranging/discovery).

¹ This document solely represents the views of the IEEE 802.3 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

3. Adopted LDPC FEC with precoding (differential encoding) for the downstream direction that include LDPC(18493, 15677) 0.848 rate parity code matrix with the Omega256 structured Interleaver. Upstream FEC has not been determined yet.
4. Adopted a Channel Control Protocol (CCP) based on MAC Control messages used to query and configure channels (wavelengths).
5. Removed the objective to support 100G PON.
6. Agreed to support WDM coexistence between 50G (2x25G) and 10G PON.

Once again, thank you for your interest. We look forward to continued collaboration with the ITU-T Q2/15 team.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group

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