

IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Frank Effenberger Rapporteur, ITU-T, SG15 Q2
feffenberger@huawei.com

Junichi Kani Associate Rapporteur, ITU-T, SG15 Q2
kani.junichi@lab.ntt.co.jp

CC: Konstantinos Karachalios Secretary, IEEE-SA Standards Board
Secretary, IEEE-SA Board of Governors
sasecretary@ieee.org

Paul Nikolich Chair, IEEE 802 LMSC
p.nikolich@ieee.org

Adam Healey Vice-chair, IEEE 802.3 Ethernet Working Group
adam.healey@broadcom.com

Pete Anslow Secretary, IEEE 802.3 Ethernet Working Group
panslow@ciena.com

Curtis Knittle Chair, IEEE P802.3ca Task Force
email@address.something

Steve Trowbridge Chairman, ITU-T Study Group 15
email@address.something

From: David Law Chair, IEEE 802.3 Ethernet Working Group
dlaw@hpe.com

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, Orlando, 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. 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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