IEEE 802.3 Ethernet Working Group
Liaison Communication

Source:	IEEE 802.3 Working Group[1]	
To:	Steve Trowbridge	Chair, ITU-T SG15 steve.trowbridge@nokia.com
	Jean-Marie Fromenteau	Rapporteur, ITU-T Q1/15 fromentejm@corning.com
	Dekun Liu	Associate Rapporteur, Q1/15 liudekun@huawei.com
	Hiroshi Ota	Advisor, ITU-T SG15 tsbsg15@itu.int
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
	Jon Lewis	Secretary, IEEE 802.3 Ethernet Working Group jon.lewis@dell.com
From:	David Law	Chair, IEEE 802.3 Ethernet Working Group dlaw@hpe.com
Subject:	IEEE 802.3 response to Liaison on ANT standardization work plan	
Approval:	Agreed to at IEEE 802.3 interim meeting, Geneva, Switzerland, 23rd January 2020	

Dear Mr Trowbridge and members of ITU-T SG15,

Following the liaison exchange between our groups on the topic of Access Network Transport (ANT) Standardization Work Plan in May 2019, we would like to update you on the activities within the IEEE 802.3 Working Group, which might be of interest to SG15.

Since our last communication, there were several changes in the status of access-related projects within the IEEE 802.3 Working Group:

- The IEEE P802.3ca Task Force has modified its objectives, focusing on the support for symmetric and/or asymmetric MAC data rates of:
  - 25 Gb/s in downstream and 10 Gb/s or 25 Gb/s in upstream (25G-EPON)
  - 50 Gb/s in downstream and 10 Gb/s, 25 Gb/s, or 50 Gb/s in upstream (50G-EPON)

  The technical work of the IEEE P802.3ca Task Force progresses through the IEEE Standards Association Ballot, with the first draft recirculation anticipated after the conclusion of this meeting. (Note that “Standards Association Ballot” refers to the

[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.

process formerly known as “Sponsor Ballot”). The currently adopted timeline for this project anticipates the completion of this project by June 2020, with the publication shortly thereafter.

More information about the IEEE P802.3ca Task Force can be found at the following URL: http://ieee802.org/3/ca/index.html, including the PAR, CSD, and Objectives for this project. The draft standard for this Task Force is stored in the private area.

- The IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model(s) Task Force has completed the development of the standard for YANG data models for:
    - Selected MAC/RS and PHYs,
    - Multi-Point Control Protocol (MPCP),
    - DTE Power via Medium Dependent Interface (MDI), and
    - Operations, Administration, and Maintenance (OAM).

  These current approved YANG data models are available in a machine-readable format in the GitHub repository: https://github.com/YangModels/yang/tree/master/standard/ieee/published/802.3.

  More information about the IEEE P802.3.2 (IEEE 802.3cf) Task Force, including the PAR, CSD, and Objectives, can be found at the following URL: http://www.ieee802.org/3/cf/index.html.

- The IEEE P802.3cp Task Force has started technical work on the development of bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s optical access PHYs, supporting operating distances of at least 10 km, at least 20 km, and at least 40 km.

  More information about the IEEE P802.3cp Task Force, including the PAR, CSD, and Objectives, can be found at the following URL: http://www.ieee802.org/3/cp/index.html. The draft standard for this Task Force (D1.1) is stored in the private area. The currently adopted timeline for this project anticipates the beginning of the IEEE 802.3 Working Group Ballot by the mid-2020.

- The IEEE P802.3cs Task Force has started technical work on the development of increased-reach Ethernet optical subscriber access (so-called Super-PON), supporting a passive point-to-multipoint ODN with a reach of at least 50 km with at least 1:64 split ratio per wavelength pair, with at least 16 wavelength pairs for point-to-multipoint PON operation. Operation of 10 Gb/s downstream and 2.5 Gb/s and 10 Gb/s is also expected. More information about the IEEE P802.3cs Task Force, including the PAR, CSD, and Objectives, can be found at the following URL: http://www.ieee802.org/3/cs/index.html. The currently adopted timeline for this project anticipates the beginning of the IEEE 802.3 Working Group Ballot by the mid-2020.

We wish to thank the leadership and members of ITU-T SG15 for the opportunity to coordinate references to our work programs and we look forward to such continuing cooperation with ITU-T SG15 in the future.

Sincerely,

David J. Law
Chair, IEEE 802.3 Ethernet Working Group