IEEE 802.3 Ethernet Working Group
<mark>DRAFT</mark> Liaison Communication

Source: IEEE 802.3 Working Group[1]

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Subject: IEEE 802.3 response to Liaison on ANT standardization work plan

Approval: Agreed to at IEEE 802.3 interim meeting Salt Lake City, UT, USA, 23rd May 2019

Dear Mr. Trowbridge and members of ITU-T Study Group 15,

Following the liaison exchange between our groups on the topic of Access Network Transport (ANT) Standardization Work Plan in October 2018, 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)

  <mark>Technical work of the IEEE P802.3ca Task Force led to the start of the IEEE 802.3 Working Group ballot at this meeting.</mark> The currently adopted timeline for this project anticipates the beginning of the IEEE Standards Association Ballot by the end of 2019.

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[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.

(Note that "Standards Association Ballot" refers to the process formerly known as "Sponsor Ballot")

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 draft 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 YANG data models are currently available in a machine-readable format in the GitHub repository: https://github.com/YangModels/yang/tree/master/standard/ieee/draft/802.3. Once the IEEE Std 802.3.2 standard is published, all YANG data models will be published 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 draft standard for this Task Force is stored in the private area.

- 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 (D0.1) 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 end of 2019.

- 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 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