IEEE 802.3 Ethernet Working Group
DRAFT 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 Spokane, WA, USA, 13th September 2018	

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 November 2017, 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 802.3 working group has agreed to modification of the objectives to remove 100 Gb/s from the scope of the project, and corresponding PAR modifications are

[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.

pending approval by the Standards Board. Technical work of the IEEE P802.3ca Task Force has shifted from selecting the baseline proposals towards development and refinement of the initial versions of the Task Force draft. Draft D1.3 will be published out of this meeting and open for Task Force review. The currently adopted timeline for this project anticipates the beginning of the Working Group ballot early in 2019.

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 continues 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/802.3/draft. The Working Group review has been successfully completed, with the transition to Sponsor Group ballot out of the September 2018 meeting.
  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.
- Two new Study Groups are currently active, focusing on development of access-related physical medium definitions, namely:
    - 10Gb/s, 25Gb/s, and 50Gb/s Bidirectional Access Optical PHYs Study Group (http://www.ieee802.org/3/NGBIDI/index.html) is studying proposed new PHY types at the indicated rates of operation using signaling in both directions over a single fiber.
    - Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Study Group (http://www.ieee802.org/3/SUPER_PON/index.html) is studying possible new access architectures to support larger reach and split ratios of current PON systems using a combination of WDM and power splitters, while using only passive components between the CO and the subscriber.

  Progress of both of these Study Groups and their potential transition into Task Force status will be reported on in the next liaison communication letters.

We would also like to recommend the following updates to the ANT standards' overview document:

- Update all references to "802.3-2015" and "802.3 – 2015" to read "802.3-2018". The latest 802.3 revision project was approved by the Standards Board on 14 June 2018 and published on 31 August 2018. This project incorporates and supersedes the eleven in-force Amendments and corrigendum that have been produced since IEEE Std 802.3-2015, in particular, Amendments IEEE Stds 802.3bw-2015, 802.3bp-2016, 802.3bq-

2016, 802.3br-2016, 802.3by-2016, 802.3bz-2016, 802.3bn-2016, 802.3bu-2016, 802.3bv-2017, 802.3bs-2017, 802.3cc-2017, and 802.3-2015-Cor1-2017.

- Replace reference to “802.3bn-2016” with “802.3-2018”, given that the EPoC Physical Layer Specifications and Management Parameters were merged into the main IEEE Std 802.3 in the latest revision.
- Update definition of current item “802.3bn-2016” to read as follows: Physical Layer Specifications and Management Parameters for Ethernet Passive Optical Networks Protocol over Coax (EPoC) – IEEE Std 802.3, Clause 100, Clause 101, Clause 102, and Clause 103.

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