IEEE 802.3 Ethernet Working Group Liaison Communication

Source:	IEEE 802.3 Working Group[1]	
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Subject:	IEEE 802.3 response to LL on ANT standardization work plan	
Approval:	Agreed to at IEEE 802.3 Plenary meeting Dallas, TX, USA, 12th November 2015	

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 March 2015, 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 a number of changes in the status of access-related projects within the IEEE 802.3 Working Group:

- The IEEE P802.3bn EPON Protocol over Coax (EPoC) Task Force continues to work on the development of a PHY for the operation of EPON protocols over coaxial distribution networks. The EPoC PHY is intended to support:
    - symmetric and asymmetric (downstream / upstream) data rates;
    - symmetric and asymmetric (downstream / upstream) spectrum allocation;
    - independent configuration of downstream and upstream link parameters;
    - a baseline data rate of 1 Gbit/s downstream and upstream, when operating within up to 120 MHz of allocated spectrum, under defined baseline plant conditions;

[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.

  - a data rate lower than the baseline data rate when transmitting in less than 120 MHz of assigned spectrum or under poorer than defined plant conditions;
  - a data rate higher than the 1 Gbit/s baseline data rate and up to 10 Gbit/s when transmitting in assigned spectrum and in channel conditions that permit.

  More information about the IEEE P802.3bn Task Force can be found at following URL: http://www.ieee802.org/3/bn/index.html, including the Project Authorization Request (PAR), 5 Criteria responses and Objectives for this project. This Task Force has currently completed the first Working Group recirculation ballot, progressing steadily towards Sponsor Group ballot, expected to open late January 2016.

- VERSION 1 (assuming NG-EPON SG is moved to TF stage at the end of this meeting)
  The Next Generation EPON Study Group has completed its charter to develop Criteria for Standards Development (CSD), Objectives, and Project Authorization Request (PAR), and received the approval from the IEEE 802.3 Working Group.
  The future IEEE P802.3ca 100G-EPON Task Force will focus on development of symmetric and asymmetric data rate 25G-EPON, 50G-EPON, and 100G-EPON PHYs, supporting operation over point-to-multipoint fiber-based subscriber access networks. Support for coexistence with 10G-EPON on the same fiber is also one of the requirements for the future NG-EPON PHYs.
  More information about the NG-EPON Study Group can be found at the following URL: http://www.ieee802.org/3/NGEPONSG/index.html, including the PAR, CSD, and Objectives for this project.
- VERSION 2 (assuming NG-EPON SG is *NOT* moved to TF stage at the end of this meeting)
  The Next Generation EPON Study Group continues its work to develop Criteria for Standards Development (CSD), Objectives, and Project Authorization Request (PAR), and received the approval from the IEEE 802.3 Working Group.
  The current objectives developed by NG-EPON Study Group call for development of symmetric and asymmetric data rate 25G-EPON, 50G-EPON, and 100G-EPON PHYs, supporting operation over point-to-multipoint fiber-based subscriber access networks. Support for coexistence with 10G-EPON on the same fiber is also one of the requirements for the future NG-EPON PHYs.
  More information about the NG-EPON Study Group can be found at the following URL: http://www.ieee802.org/3/NGEPONSG/index.html, including the PAR, CSD, and Objectives for this project.

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