

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

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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
Berlin, Germany, 12th March 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 November 2014, 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;

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.

- 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;
- 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 is currently undergoing Task Force review of the draft, progressing steadily towards Working Group ballot, expected to open in July 2015.

- **VERSION 1 (assuming NG-EPON IC report is approved at this closing plenary)**
The work under the “Next Generation EPON Ad-Hoc” under the Industry Connections program was completed, with the report approved by IEEE 802.3 Working Group at the closing plenary in Berlin, Germany, March 2015. More information about this ad-hoc and its progress can be found at http://www.ieee802.org/3/ad_hoc/ngepon/. The final version of the NG-EPON IC report is published on the ad-hoc website.
VERSION 2 (assuming NG-EPON IC is not approved at this closing plenary)
The work under the “Next Generation EPON Ad-Hoc” under the Industry Connections program is ongoing. More information about this ad-hoc and its progress can be found at http://www.ieee802.org/3/ad_hoc/ngepon/. The ad-hoc is working towards the completion of its report, with the expected delivery for the approval by the IEEE 802.3 Working Group at the closing plenary in Waikoloa, HI, USA, July 2015.

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