IEEE 802.3ca 50G-EPON Task Force
Closing Report

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IEEE 802.3ca 50G-EPON Task Force
Project Information

Task Force Organization:

Chair: Curtis Knittle, CableLabs

Vice Chair: Glen Kramer, Broadcom

Chief Editor: Marek Hajduczenia, Charter

Task Force web and reflector information

Reflector information: http://www.ieee802.org/3/ca/3ca_reflector.shtml

Home page: http://www.ieee802.org/3/ca/index.shtml

PAR: http://www.ieee802.org/3/ca/documents/P802_3ca_par_approved.pdf

CSD: https://mentor.ieee.org/802-ec/dcn/15/ec-15-0100-00-ACSD-802-3ca.pdf

Objectives: http://www.ieee802.org/3/ca/documents/P802_3ca_objectives.pdf

Progress This Week

- ~20 people met for 1.5 days

- One new contribution for Clause 45

- Resolved 277 comments

- Agreed to updated PAR modification document

- Agreed to create Draft 1.4

PAR Modification (1/2)

A simple modification to the already-approved PAR Modification Request:

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 07/2019~~18~~

4.3 Projected Completion Date for Submittal to RevCom

From: http://www.ieee802.org/3/ca/public/meeting_archive/2018/07/kramer_3ca_9a_0718.pdf

WG Motion – PAR Modification (2/2)

Move that the IEEE 802.3 Working Group approve the modifications to the IEEE P802.3ca 25 Gb/s, 50 Gb/s and 100 Gb/s EPON PAR, as shown in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0172-01-00EC-ieee-p802-3ca-draft-par-modification-request.pdf

Moved: Curtis Knittle

Second:

Technical (>75%)

Results:

CSD Modification (1/2)

ec-18-0173-00-00EC

Technical Feasibility

Each proposed IEEE 802 LMSC standard shall provide evidence that the project is technically feasible within the time frame of the project. At a minimum, address the following items to demonstrate technical feasibility:

a) Demonstrated system feasibility.
b) Proven similar technology via testing, modeling, simulation, etc.
c) Confidence in reliability.

- Presentations made to IEEE 802.3 Industry Connections NG-EPON ad hoc and to the NG-EPON Study Group illustrate the technical feasibility of a point-to-multipoint PHY operating at a rate of at least 25 Gb/s.
- This project reuses the Ethernet point-to-multipoint technology that proved to be stable and reliable. The project will extend point-to-multipoint PHY technology to support MAC data rates of 25 Gb/s and up to 50~~100~~ Gb/s.
- Contributions received from PHY vendors, component vendors, system vendors, and service providers suggest that 10 Gb/s point-to-multipoint and 25 Gb/s point-to-point technologies are mature, which provides a high level of confidence in the reliability of future 25 Gb/s and 50~~100~~ Gb/s EPON systems.

WG Motion – CSD Modification (2/2)

Move that the IEEE 802.3 Working Group approve the IEEE P802.3ca 25 Gb/s, 50 Gb/s and 100 Gb/s EPON CSD modifications as shown in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0173-00-00EC-ieee-p802-3ca-draft-modified-csd.pdf

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Second:

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Results:

Questions?

Thank you!