

IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength Task Force

Report to 802.3 Working Group

Indianapolis, IN
Sept 12th, 2019

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IEEE P802.3cu: Progress This Week & Key Activities

- ~40 attendees
- 8 technical contributions were made
- 7 Motions and 3 Straw Polls were taken.

- Final 400 Gb/s PMD baseline has been adopted
 - Key technical issue has been the ability to achieve a 10 km reach given the higher chromatic dispersion and whether a breadth of devices could be used to implement it with sufficient margin/yield when everything is worst case.
 - Information brought forward that end-users who have deployed 10 km interfaces in their networks value the extra loss-budget of that type of interface rather than actual 10 km reach.
 - Compromise was to consider a shorter reach (6km) but maintain a 10 km equivalent channel loss budget.
 - Consensus achieved on baseline proposal
http://www.ieee802.org/3/cu/public/Sept19/lewis_3cu_02a_0919.pdf

Motion passed Y/N/A: 44/1/12

Modification of Objectives

Previous Objective:

- Define a four-wavelength 400 Gb/s PHY for operation over SMF with lengths **up to at least 10 km**

Modification of objective (approved by Task Force)

- Define a four-wavelength 400 Gb/s PHY for operation over SMF with lengths **up to at least 6 km**

Task Force motion to approve passed Y/N/A: 44/1/12

With Task Force approval on an objective change, now we need Working Group approval

Motion

Move that the IEEE 802.3 Working Group approve the IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength Task Force objective change, as per 0919_cu_report.pdf

Moved by: Mark Nowell

Seconded by: Kenneth Jackson

Thanks