

IEEE P802.3cm
400 Gb/s over Multimode Fiber
Task Force
Closing Report

Robert Lingle Jr
OFS
San Diego, CA, USA
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IEEE P802.3 Task Force Project Information

Task force organization

Robert Lingle Jr, OFS, TF Chair

Mabud Choudhury, OFS, TF Recording Secretary

Jonathan King, Finisar, Editor-in-Chief & SR8 clause

Jonathan Ingham, FIT, Editor for SR4.2 clause

Task force web & reflector information

Reflector: <http://www.ieee802.org/3/NGMMF/reflector.html>

Home page: <http://www.ieee802.org/3/cm/>

Project documentation

PAR: http://www.ieee802.org/3/cm/P802_3cm_PAR_140518.pdf

CSD: <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0018-02-00EC-ieee-p802-3cm-draft-csd.pdf>

Objectives:

http://www.ieee802.org/3/cm/Adopted_Objectives_NGMMF_01_08mar18.pdf

Approved Objectives

1. Support full-duplex operation only
2. Preserve the Ethernet frame format utilizing the Ethernet MAC
3. Preserve the minimum and Maximum FrameSize of current Ethernet standard
4. Provide appropriate support for OTN
5. Specify optional Energy Efficient Ethernet (EEE) capability
6. Support a BER of better than or equal to 10^{-13} at the MAC/PLS service interface (or the frame loss ratio equivalent)
7. Support a MAC data rate of 400 Gb/s
8. Define a physical layer specification that supports 400 Gb/s operation over 8 pairs of MMF with lengths up to at least 100m
9. Define a physical layer specification that supports 400 Gb/s operation over 4 pairs of MMF with lengths up to at least 100m

Task Force Report for San Diego

- ~74 persons in attendance
- Reviewed 2 contributions
 - baseline proposals for the 4-pair objectives for 400 Gb/s over up to at least 100m MMF
- Adopted a baseline proposal for the 4-pair objective
- Specified that the same AUI, PCS, PMA will be used for 4-pair objective as were specified for the 8-pair baseline, which referenced prior clauses
- Discussed remaining items needing clarification in Ad Hoc calls and the Editors' next steps to prepare D0.x for discussion at September interim in Spokane.
- A detailed target timeline is in preparation.
- Three 1.5 hour Ad Hocs announced for Thursdays 7/26, 8/23, and 8/30 at 1pm Eastern US time

Motion #3

Move to adopt content of Slides 9 to 14 of http://www.ieee802.org/3/cm/public/July18/ingham_3cm_01b_0718.pdf as baseline for the 4-pair PHY objective

Moved by: Jonathan Ingham 2nd: James Young

Technical : > 75%

Results: Yes: 38 No: 2 Abstain: 28

Motion Passes!

Room Count: 74

Motion #4

Move to adopt the same PCS, PMA and AUI baselines for the 4-pair PHY objective as already adopted for the 8-pair PHY objective

Moved by: Mark Nowell 2nd: Paul Kolesar

Technical : > 75%

Results: Yes: 41 No: 0 Abstain: 7

Motion Passes!

Questions?

Thank you!