

IEEE P802.3db Short Reach Fiber Opening Report

Robert Lingle Jr

OFS

Teleconference

July 13, 2020

IEEE P802.3db Short Reach Fiber Project information

Task Force Organization

Robert Lingle, Jr., IEEE P802.3db Task Force Chair

Mabud Choudhury, IEEE P802.3db Task Force Secretary

Task force web and reflector information

Reflector information: <http://ieee802.org/3/db/reflector.html>

Home page: <http://ieee802.org/3/db/index.html>

PAR: http://ieee802.org/3/db/P802d3db_PAR.pdf

CSD: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0097-01-ACSD-p802-3db.pdf>

Objectives: http://ieee802.org/3/db/P802d3db_Objectives_Approved_May_2020.pdf

IEEE P802.3db Short Reach Fiber Activities since March 2020 plenary

- 100G Short Reach Study Group
 - Held 4 Ad Hoc Telecons March-April-May
 - Held an Interim SG Telecon in May
- Approval of PAR, CSD, Objectives by IEEE 802.3 at May 21 WG Interim
- Approval of PAR, CSD by IEEE 802 EC in June
- IEEE P802.3db Short Reach Fiber Task Force
 - Held Interim TF Telecon on June 11
 - Held 2 Ad Hoc Telecons in June & July
 - Major items discussed
 - Re-use of existing PCS & FEC
 - Is 100m reach technically & economically feasible? If yes, do we need both a shorter and longer reach objective?
 - Use of a 7 or 9-tap FFE reference equalizer to achieve longer reach?
 - MDI topics – angled MPO connectors? specify optical lane assignments for breakout applications? New connector types?
 - Current status
 - Reviewing baseline proposals

IEEE P802.3db Short Reach Fiber Meeting week plan

TF Interim Telecon Tuesday July 14th, 10am Eastern time

- Webex Info <https://listserv.ieee.org/cgi-bin/wa?A2=ind20&L=STDS-802-3-100GSR&O=D&P=76251>

Goals for the meeting

- Approve liaison letter to FibreChannel
- Conduct straw polls to map out needed contributions in next few months
- Motion on FEC/PCS re-use if warranted by straw polling

Big ticket items

- Re-use of FEC/PCS from previous projects
- Newer application stresses lowest-cost solution for server attachment
- Established application focuses on 100m reach for switch-to-switch connections

Questions?

Thank you!