

IEEE P802.3dg 100 Mb/s Long-Reach Single-Pair Ethernet Task Force Opening Report

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802 Plenary

July 2024

IEEE P802.3dg Project Information

Task Force Organization

George Zimmerman, IEEE P802.3dg Task Force Chair

TBD, IEEE P802.3dg Task Force Vice Chair

Bob Voss, IEEE P802.3dg Task Force Secretary

Task Force web and reflector information

Reflector information: <https://www.ieee802.org/3/dg/reflector.html>

Home page: <https://www.ieee802.org/3/dg/index.html>

Private area: (none yet)

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PAR: https://www.ieee802.org/3/dg/P802d3dg_PAR.pdf

CSD: <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0086-00-ACSD-p802-3dg.pdf>

Objectives: https://www.ieee802.org/3/dg/Objectives_adopted_8023_03172022.pdf

IEEE 802.3dg Task Force

Activities since March 2024 plenary

Held meetings 13-May-2024 (802.3 interim),
26-Jun-2024 (telephonic ad hoc)

Major items discussed, decisions made and actions

- Adopted PAM-3 signaling for PHY baseline

- Built consensus on dual-mode PCS encoding to allow FEC and non-FEC (low latency) modes with same baud rate

- Discussed contributions relating to potential new MII specification – no proposal yet

Current status

- Adopting baselines to achieve objectives

Revised Timeline (approved 7/11/2023)

- ✓ Sept 2022 – Measurements of Noise, Link segments examples
 - ✓ Need to consider hybrid cables, separation of circuits, internal coupling
- ✓ Nov 2022 – Potential PHY & Link segment baseline starts
- ✓ Jan 2023 – PHY baseline discussion
 - Link segment baselines (electrical characteristics of communication) selected
- ❖ Jan 2024 – Draft 1.0 (baseline selected)
- ❖ Jan-May 2024 - TF review
- ❖ May 2024 – Draft 2.0, Initial WG ballot
- ❖ November 2024 – approval for SA ballot, initiate SA ballot
- ❖ March 2025 – conditional approval for RevCom
- ❖ June 2025 – SASB – standard complete

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Meeting week plan

Goals for the meeting

- Adopt PHY PCS baseline

- Consider how to best progress new MII definitions

Big ticket items

- PCS encoding decision, adopt baselines

Meets:

- Mon Jul 15 – 1330- 1730 EDT (UTC-4)

- Tues Jul 16 – 0900-1230 EDT (UTC-4)

Questions?

Thank you!