

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

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OnSemi, SenTekSe, Sony

802 Plenary

March 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 November 2023 plenary

Held meetings 10-Jan-2024, 25-Jan-2024 (802.3 interim),
7-Feb-2024, 28-Feb-2024 (telephonic interim)

Major items discussed, decisions made and actions

Discussed contributions related to PHY parameters including latency, noise environment, and simulations

- Set stages for PHY baseline decisions

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

Current status

Consideration of PHY signaling for baseline selection (PAM 3 or PAM 4)

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

IEEE 802.3dg Task Force

Meeting week plan

Goals for the meeting

Progress PHY baseline

Consider whether to progress new MII definition or leave for another project

Big ticket items

Performance in Industrial EM Impulse environment

Resolve whether a new MII definition is needed

Meets:

Mon Mar 11 – 1330- 1730 MST (UTC-7)

Tues Mar 12 – 0900-1230 MST (UTC-7)

Questions?

Thank you!