

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

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CME Consulting/ADI, APL Group, Cisco, Marvell,
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802 Plenary

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IEEE P802.3dg 100 Mb/s Long-Reach SPE Task Force Project Information

Task Force Organization

George Zimmerman, IEEE P802.3dg Task Force Chair

Bob Voss, IEEE P802.3dg Task Force Secretary

Yan Zhuang, IEEE P802.3dg Chief Editor

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>

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

Approved timeline: https://www.ieee802.org/3/dg/revised_2_timeline_20240918.pdf

Private area: <https://www.ieee802.org/3/dg/private/index.html>

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IEEE 802.3dg Task Force

Activities since November 2024 plenary

Met jointly with IEEE P802.3da Jan 20-22, 2025 @ 802.3 interim,
Met via Electronic Interim 5-Feb 2025

Major items discussed, decisions made and actions

- Adopted baselines for Training and PHY Control state diagrams

- Reviewed draft text, updated to progress to formal D1.0 and Task Force review

- MII work is spun off to POPI, APL Power work has not progressed and is unlikely to

Current status

- Adopting baselines to achieve objectives (hopefully finishing this)

- Producing Task Force review drafts (d 1.0)

IEEE P802.3dg 100 Mb/s Long-Reach SPE Task Force Adopted Timeline

802.3dg

Revised² Timeline

Adopted by TF
9/18/2024

- ✓ 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
- ✓ July 2024 – Major PCS/PMA baselines selected
- ❖ Nov 2024 – Draft 1.0 (baselines + skeleton draft)
- ❖ Nov - Mar 2025 - TF review
- ❖ May 2025 – Draft 2.0, Initial WG ballot
- ❖ Nov 2025 – initiate SA ballot
- ❖ Mar 2026 – conditional approval for RevCom
- ❖ June 2026 – SASB – standard complete

IEEE 802.3dg 100 Mb/s Long-Reach SPE Task Force Meeting week plan

(meet separate Wed PM/Thurs AM)

Goals for the meeting

- Adopt baselines to fill out d1.0, registers and MII encoding

- Accept text for d1.0 to begin formal TF review

Big ticket items

- Revisiting sequence ordered sets

- Formally adopting text to fill out the draft

Future

- Begin Formal Task Force review of d1.0

Questions?

Thank you!