

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

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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

Valerie Maguire, IEEE P802.3dg Managing 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 March 2025 plenary

Met during the May 2025 IEEE 802.3 interim, and on 25 June and 9 July via Electronic Interims.

Major items discussed, decisions made and actions

- Reviewed drafts 1.0 through 1.3

- Completed management, PCS, PMA, and Powering text for 100BASE-T1L PHY

- Adopted text for MDI and PMA electrical specifications

Current status

- Preparing for initial Working Group ballot

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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

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Meeting week plan

(meet separate Wed PM/Thurs AM)

Goals for the meeting

- Fill in (small number) of remaining TBDs

- Request progression to working group ballot

Big ticket items

- Reviewing editor's notes and draft status for readiness

Future

- Begin Working Group Ballot phase

Questions?

Thank you!