

IEEE P802.3dg 100 Mb/s Long-Reach Single-Pair Ethernet Task Force Closing 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 at July 2024 plenary

Held meetings 15 July / 16 July

Major items discussed, decisions made and actions

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

Adopted MII sequence ordered sets, and $8N/(8N+1)B$ encodings

Discussed contributions relating to potential new MII specification – preparing for NEA presentation

Updated Timeline

Current status

Adopting baselines to achieve objectives

OLD

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

Revised Timeline (7/16/2024)

- ✓ 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
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IEEE P802.3dg Next meetings

Ad hocs – Wednesday 7-9 pacific, opportunities 7/24, 8/21, 8/28, 9/4. (AS NEEDED, CALLED OFF IF NO REQUESTS)

Sept 2024 802.3 Interim, Hamburg, Germany (Sep 16-20)

In-person with remote access

See <https://www.ieee802.org/3/interims/index.html> for information

Questions?

Thank you!