

IEEE 802.3 Ethernet Working Group
Liaison Communication

Source: IEEE 802.3 Working Group¹

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From: David Law Chair, IEEE 802.3 Ethernet Working Group
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Subject: Update on IEEE P802.3da and IEEE P802.3dg Single-Pair Ethernet Projects

Approval: Agreed to at IEEE 802.3 Interim meeting, Campinas, Brazil, 14 September 2023

Dear Mr Oehler,

The IEEE 802.3 Ethernet Working Group would like to update you on the progress of two of our single-pair Ethernet projects, IEEE P802.3dg, 100 Mb/s Long-Reach Single Pair Ethernet, and IEEE P802.3da, 10 Mb/s Single Pair Mixing Segment Enhancements. Progress in both projects has been slower than expected, and respective project timelines have been revised within the past six months. Timelines may be found at the top-level

¹ This document solely represents the views of the IEEE 802.3 Working Group and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

webpage of each project, <https://www.ieee802.org/3/da/> and <https://www.ieee802.org/3/dg/>, respectively.

The IEEE P802.3dg Task Force has selected baseline link segment specifications to meet its objective to “Define performance characteristics of a link segment with a single balanced pair of conductors supporting up to 5 inline connectors for up to at least 500m reach, and a PHY supporting point-to-point full duplex operation over the link segment.” The link segment specifications are defined over a frequency range from 0.1 MHz to 60 MHz. The collected link segment baselines to date, along with references to the meetings where they were adopted, may be found in https://www.ieee802.org/3/dg/link_segment_090723.pdf.

The IEEE 802.3 Working Group would also like to update you on the progress of the IEEE P802.3da draft. The IEEE P802.3da Task Force has adopted and is currently reviewing a substantial update to the mixing segment specification. We caution ISO/IEC JTC 1/SC 25/WG 3 that the IEEE P802.3da draft is only in the initial stages of formal review by the Task Force and therefore may be considered subject to substantial change, including the adopted mixing segment text which can be found at https://www.ieee802.org/3/da/public/0523/8023-168_with%20TC1r1_clean.pdf. Further explanation of the motivation of the mixing segment specifications can be found at: https://www.ieee802.org/3/da/public/0323/zimmerman_3da_01a_03092023.pdf. We would also like to advise you that the Task Force has adopted revised objectives. Links to these may be found on the Task Force’s main webpage at <https://www.ieee802.org/3/da/>.

The IEEE 802.3 Ethernet Working Group looks forward to continuing to work with ISO/IEC JTC 1/SC 25/WG 3 as these projects progress.

Sincerely,
David Law
Chair, IEEE 802.3 Ethernet Working Group