P802.3-2022/Cor 1

Type of Project: Corrigendum to IEEE Standard 802.3-2022
Project Request Type: Initiation / Corrigendum
PAR Request Date: 18 Nov 2023
PAR Approval Date: 15 Feb 2024
PAR Expiration Date: 31 Dec 2028
PAR Status: Active
Root Project: 802.3-2022

1.1 Project Number: P802.3-2022/Cor 1
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: IEEE Standard for Ethernet - Corrigendum 1 - Multi-Gigabit Automotive Medium Dependent Interface (MDI) Return Loss

3.1 Working Group: Ethernet Working Group(C/LAN/MAN/802.3 WG)
3.1.1 Contact Information for Working Group Chair:
Name: David Law
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3.1.2 Contact Information for Working Group Vice Chair:
Name: Adam Healey
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3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LAN/MAN)
3.2.1 Contact Information for Standards Committee Chair:
Name: Paul Nikolich
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3.2.2 Contact Information for Standards Committee Vice Chair:
Name: James Gilb
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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot: Apr 2024
4.3 Projected Completion Date for Submittal to RevCom: Oct 2024

5.1 Approximate number of people expected to be actively involved in the development of this project: 15
5.2.a Scope of the complete standard: This standard defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer entities (PHY). The Physical Layer encodes frames for transmission and decodes received frames with the modulation specified for the speed of operation, transmission medium and supported link length. Other specified capabilities include: control and management protocols, and the provision of power over selected twisted pair PHY types.
5.2.b Scope of proposed changes: Corrections to MDI return loss Equations (149–27) and (165–42) and to Figure 165–38 'MDI return loss calculated limit in Equation (165–42)'.

5.3 Is the completion of this standard contingent upon the completion of another standard? No
5.4 Purpose: This document will not include a purpose clause.
5.5 Need for the Project: There are sign errors in MDI return loss Equations (149–27) and (165–42) and in Figure 165–38 'MDI return loss calculated limit in Equation (165–42)' that need to be corrected.
5.6 Stakeholders for the Standard: End-users, automotive manufacturers, system integrators, and providers of systems and components (e.g., cameras, sensors, actuators, artificial intelligence processors, instruments, controllers, network infrastructure, user interfaces, and servers) for automotive applications.

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?
No

6.1.2 Is the Standards Committee aware of possible registration activity related to this project?
No

7.1 Are there other standards or projects with a similar scope? No

7.2 Is it the intent to develop this document jointly with another organization? No

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8.1 Additional Explanatory Notes: Items 5.2.b and 5.5: Equation 165-27 and Figure 165-38 are published in the IEEE Std 802.3cy-2023 amendment of IEEE Std 802.3-2022