IEEE SA STANDARDS ASSOCIATION

P802.3

Type of Project: Revision to IEEE Standard 802.3-2022
Project Request Type: Initiation / Revision
PAR Request Date: 05 Oct 2025
PAR Approval Date: 10 Dec 2025
PAR Expiration Date: 31 Dec 2029
PAR Status: Active
Root Project: 802.3-2022

1.1 Project Number: P802.3
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Ethernet
    Change to Title: ~~IEEE~~ Standard for Ethernet

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
    Email Address: david_law@ieee.org
    3.1.2 Contact Information for Working Group Vice Chair:
    Name: Adam Healey
    Email Address: adam.healey@broadcom.com
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: James Gilb
    Email Address: gilb_ieee@tuta.com
    3.2.2 Contact Information for Standards Committee Vice Chair:
    Name: David Halasz
    Email Address: dave.halasz@ieee.org
    3.2.3 Contact Information for Standards Representative:
    Name: George Zimmerman
    Email Address: george@cmephyconsulting.com

4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:
Apr 2027
4.3 Projected Completion Date for Submittal to RevCom: Oct 2027

5.1 Approximate number of people expected to be actively involved in the development of this project: 230
5.2 Scope of proposed 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.
Change to scope of proposed 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.

5.3 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: IEEE Std 802.3-2022 needs to be revised to allow future amendments to be considered per standards board policies. This revision will include the merge of approved amendments and accumulated maintenance changes. As there are a number of amendment projects currently in the "pipeline", it is desirable to complete this revision in a timely manner to provide a solid base for balloting of the projects that will follow. Timely completion of the revision is also desired to avoid delays to these projects. The consequence of these schedule considerations is that new capabilities or functional enhancements may have to be deferred to future projects.

5.6 Stakeholders for the Standard: Ethernet is pervasive, with a consequent pervasive set of stakeholders. This includes component providers (e.g., optical transceivers, cabling and integrated circuit), system product providers (e.g., switch and network interface card), network providers (e.g., installers, network support), bandwidth providers (e.g., carriers), software providers (e.g., network management), providers of network powered or powering devices, and the users of any of these products or services.

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?
    Yes

    Explanation: Registration Authority Committee (RAC) review is appropriate to assure terminology and descriptions of usage are current.

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: