

## P802.3da

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This PAR is valid until 31-Dec-2024.

**PAR Extension Request Date:** 15 Jul 2024  
**PAR Extension Approval Date:**  
**Number of Previous Extensions Requested:** 0

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- 1. Number of years that the extension is being requested:** 2
  - 2. Why an Extension is Required (include actions to complete):** This project started just before the pandemic hit. It's had a hard time getting on track with virtual only meetings for the first 2+ years. The Task Force has since made progress, particularly once face to face meetings resumed, and is preparing to submit for Working Group ballot.
  - 3.1. What date did you begin writing the first draft:** 05 Jan 2021
  - 3.2. How many people are actively working on the project:**40
  - 3.3. How many times a year does the working group meet?**
    - In person:** 6
    - Via teleconference:** 3
  - 3.4. How many times a year is a draft circulated to the working group:** 6
  - 3.5. What percentage of the Draft is stable:** 85%
  - 3.6. How many significant work revisions has the Draft been through:** 4
  - 4. When will/did initial Standards Association Balloting begin:** Jul 2025
- When do you expect to submit the proposed standard to RevCom:** Mar 2026  
**Has this document already been adopted by another source? (if so please identify)** No
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For an extension request, the information on the original PAR below is not open to modification.

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**Type of Project:** Amendment to IEEE Standard 802.3-2018  
**Project Request Type:** Initiation / Amendment  
**PAR Request Date:** 23 Apr 2020  
**PAR Approval Date:** 03 Jun 2020  
**PAR Expiration Date:** 31 Dec 2024  
**PAR Status:** Active  
**Root Project:** 802.3-2018

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

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**2.1 Project Title:** Standard for Ethernet  
 Amendment: Physical Layer Specifications and Management Parameters for Enhancement of 10 Mb/s Operation over Single Balanced Pair Multidrop Segments

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**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:** [REDACTED]  
**3.1.2 Contact Information for Working Group Vice Chair:**  
**Name:** Adam Healey  
**Email Address:** [REDACTED]  
**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:** [REDACTED]  
**3.2.2 Contact Information for Standards Committee Vice Chair:**  
**Name:** David Halasz  
**Email Address:** [REDACTED]  
**3.2.3 Contact Information for Standards Representative:**  
**Name:** George Zimmerman  
**Email Address:** [REDACTED]

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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:**  
Nov 2022

**4.3 Projected Completion Date for Submittal to RevCom:** Aug 2023

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 30

**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 the project:** Specify additions and modifications of the Physical Layer (including reconciliation sublayers), management parameters, Ethernet support for time synchronization protocols, and optional power delivery supporting multiple powered devices on the 10 Mb/s mixing segment.

**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:** Many applications in building, industrial, and transportation industries have begun the transition from legacy non-Ethernet networks to Ethernet. A number of these applications require enhancements to 10Mb/s multidrop single balanced pair networks, e.g., larger multidrop topologies, power delivery, TSSI (Time Synchronization Service Interface). These enhancements will increase the applications addressed by this technology.

**5.6 Stakeholders for the Standard:** End-users, vendors, system integrators, and providers of systems and components (e.g., sensors, actuators, instruments, controllers, elevator systems, HVAC systems, lighting systems, network infrastructure, security systems, user interfaces) for building (commercial and residential), industrial, and transportation (e.g. automotive, trains/trams) sectors.

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## **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

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**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:**