P802.3dd

Submitter Email:
Type of Project: Amendment to IEEE Standard 802.3-2018
Project Request Type: Initiation / Amendment
PAR Request Date:
PAR Approval Date:
PAR Expiration Date:
PAR Status: Draft
Root Project: 802.3-2018

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

2.1 Project Title: IEEE Standard for Ethernet Amendment: Maintenance #17: Power over Data Lines of Single Pair Ethernet

3.1 Working Group: Ethernet Working Group(C/LM/802.3 WG)
    3.1.1 Contact Information for Working Group Chair:
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3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LM)
    3.2.1 Contact Information for Standards Committee Chair:
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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: Dec 2021
4.3 Projected Completion Date for Submittal to RevCom: Aug 2022

5.1 Approximate number of people expected to be actively involved in the development of this project: 10
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: This project implements editorial and technical corrections, refinements, and clarifications to Clause 104, Power over Data Lines (PoDL) of Single-Pair Ethernet, and related portions of the standard. No new features are added by this project.

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: Editorial and technical issues have been identified in Clause 104, Power over Data Lines (PoDL) of Single-Pair Ethernet. These issues need to be addressed to improve the accuracy and clarity of the standard.

5.6 Stakeholders for the Standard: Ethernet component providers (e.g., cabling and integrated circuit), providers of systems and components (e.g., sensors, actuators, instruments, controllers, network infrastructure, user interfaces, and servers), network providers (e.g., installers, network support) and network implementers (e.g., enterprise, building automation and industrial automation).

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

8.1 Additional Explanatory Notes :