

P802.3

Submitter Email:
Type of Project: Revision to IEEE Standard 802.3-2018

Project Request Type: Initiation / Revision

PAR Request Date:
PAR Approval Date:
PAR Expiration Date:
PAR Status: Draft

Root Project: 802.3-2018

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/LM/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/LM)

3.2.1 Contact Information for Standards Committee Chair:
Name: Paul Nikolich

Email Address: p.nikolich@ieee.org

3.2.2 Contact Information for Standards Committee Vice Chair:
Name: James Gilb

Email Address: gilb@ieee.org

3.2.3 Contact Information for Standards Representative:
Name: James Gilb

Email Address: gilb@ieee.org

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:

Jul 2021

4.3 Projected Completion Date for Submittal to RevCom: Jan 2022

5.1 Approximate number of people expected to be actively involved in the development of this project: 180

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.

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 802.3-2018 will need 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.

Change to Need for the Project: IEEE Std 802.3-2015-2018 will need to have a revision initiated by be 2018 revised to allow consideration of future amendments to be considered per standards board policies. This revision will include the merge of approved amendments, corrigenda, and accumulated maintenance changes. ~~Because~~ As there are multiple a number amendments of amendment projects currently in the " " pipeline " ", it will be is desirable to complete this revision by in the a end timely ~~of 2018~~ manner to provide a solid base for sponsor balloting of approved amendment the projects that will follow. Timely completion of the revision. ~~These is schedule also considerations desired~~ require to timely avoid completion delays of to the these revision projects. ~~As~~ The a consequence of these schedule considerations is result, that new capabilities or functional enhancements may have to be deferred to future ~~projects to avoid delaying approved and proposed new 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.

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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?

Yes

Explanation: RAC review of previously reviewed text 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

8.1 Additional Explanatory Notes :