P802.3cr

Submitter Email: david_law@ieee.org
Type of Project: Amendment to IEEE Standard 802.3-2018
PAR Request Date: 07-Jul-2018
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

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

2.1 Title: Approved Draft Standard for Ethernet
Amendment: Maintenance #14: Isolation

3.1 Working Group: Ethernet Working Group (C/LM/WG802.3)
Contact Information for Working Group Chair
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3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
Contact Information for Sponsor Chair
  Name: Paul Nikolich
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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 11/2019
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 05/2020

5.1 Approximate number of people expected to be actively involved in the development of this project: 20
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: Replace references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment - Safety - Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and make appropriate changes to the standard corresponding to the new references.

5.3 Is the completion of this standard dependent 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 subclauses titled "Electrical isolation" throughout IEEE Std 802.3 requiring isolation meet one of three electrical strength tests with references to the IEC 60950 "Information technology equipment - Safety" series. IEC 60950, however, has been

replaced by the IEC 62368 "Audio/video, information and communication technology equipment" series and therefore an update to all isolation material in IEEE Std 802.3 is required.

5.6 Stakeholders for the Standard: Stakeholders include component providers (e.g., cabling, integrated circuits), system product providers (e.g., switch and NIC), network providers (e.g. installers, network support), bandwidth providers (e.g., carriers), providers of network powered or powering devices, certification entities, global regulatory bodies, and the users of any of these products or services.

Intellectual Property
6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No
6.1.b. Is the Sponsor 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 Joint Development
   Is it the intent to develop this document jointly with another organization?: No

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8.1 Additional Explanatory Notes: