

P802.3-2015/Cor 1

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Type of Project: Corrigendum to IEEE Standard 802.3-2015

PAR Request Date: 12-Feb-2016

PAR Approval Date:

PAR Expiration Date:

Status: Unapproved PAR, PAR for a Corrigendum to an existing IEEE Standard

1.1 Project Number: P802.3-2015/Cor 1

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Ethernet

- Corrigendum 1: Multilane timestamping

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)

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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: 09/2016

4.3 Projected Completion Date for Submittal to RevCom: 02/2017

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 Proposed changes: Clarification of which lane of the media dependent interface (MDI) of a multilane Physical Layer entity (PHY) is used as the timestamping reference point.

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: The lane of the MDI of a multilane PHY that should be used as the timestamping reference point needs to be specified. Otherwise, the entire inter-lane skew may need to be accounted for in the receive minimum and receive maximum path data delay register values, impacting the timing accuracy that can be supported.

5.6 Stakeholders for the Standard: The stakeholders are users and producers of systems and components for time-sensitive networking applications. These applications include telecommunications, wireless backhaul, industrial control, and SmartGrid.

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

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

8.1 Additional Explanatory Notes (Item Number and Explanation):