

P802.1AX-2014/Cor 1

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Type of Project: Corrigendum to IEEE Standard 802.1AX-2014

PAR Request Date: 22-Jul-2015

PAR Approval Date: 03-Sep-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a Corrigendum to an existing IEEE Standard

Root Project: 802.1AX-2014

1.1 Project Number: P802.1AX-2014/Cor 1

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and Metropolitan Area Networks - Link Aggregation - Corrigendum 1: Technical and Editorial Corrections

3.1 Working Group: Higher Layer LAN Protocols Working Group (C/LM/WG802.1)

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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: 07/2016

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: Link Aggregation provides protocols, procedures, and managed objects that allow the following: One or more parallel instances of full-duplex point-to-point links to be aggregated together to form a Link Aggregation Group (LAG), such that a MAC Client can treat the LAG as if it were a single link.; A resilient interconnect using multiple full-duplex point-to-point links among one to three nodes in a

network and one to three nodes in another, separately administered, network, along with a means to ensure that frames belonging to any given service will use the same physical path in both directions between the two networks. This standard defines the MAC-independent Link Aggregation capability and general information relevant to specific MAC types that support Link Aggregation. The capabilities defined are compatible with previous versions of this standard.

5.2.b. Scope of the Proposed changes: This corrigendum to IEEE Std 802.1AX-2014 corrects minor errors, bugs, ambiguities, omissions and inconsistencies that have been identified by the 802.1 maintenance activity. It does not contain new material.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: Link Aggregation allows the establishment of full-duplex point-to-point links that have a higher aggregate bandwidth than the individual links that form the aggregation, and the use of multiple systems at each end of the aggregation. This allows improved utilization of available links in bridged local area network (LAN) environments, along with improved resilience in the face of failure of individual links or systems. In applications connecting separately administered networks, the networks are isolated from each other's fault recovery events.

5.5 Need for the Project: The maintenance activity has identified some ambiguity in the recommended configuration of LACP when used in a specific network topology. This needs to be clarified with some urgency as alternate LACP configurations in this topology could significantly degrade network performance.

5.6 Stakeholders for the Standard: Developers, distributors and users of Link Aggregation systems.

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):