

P802.1AE

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Type of Project: Revision to IEEE Standard 802.1AE-2006

PAR Request Date: 18-Jul-2017

PAR Approval Date: 28-Sep-2017

PAR Expiration Date: 31-Dec-2021

Status: PAR for a Revision to an existing IEEE Standard

Root Project: 802.1AE-2006

1.1 Project Number: P802.1AE

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Security **Changes in title:** ~~IEEE~~ Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Security

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

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

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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: 01/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 08/2018

5.1 Approximate number of people expected to be actively involved in the development of this project: 15

5.2 Scope: The scope of this standard is to specify provision of connectionless user data confidentiality, frame data integrity, and data origin authenticity by media access independent protocols and entities that operate transparently to MAC Clients.

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

5.4 Purpose: This standard will facilitate secure communication over publicly accessible LAN/MAN media for which security has not already been defined, and allow the use of IEEE Std 802.1X, already widespread and supported by multiple vendors, in additional applications.

5.5 Need for the Project: This revision project is needed to incorporate approved amendments IEEE Stds 802.1AEbn, 802.1AEbw, and 802.1AEcg. It will also resolve any maintenance items submitted on IEEE Std 802.1AE.

5.6 Stakeholders for the Standard: Developers and users of networking equipment.

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?: Yes

If yes please explain: RAC review of previously reviewed text is appropriate to assure terminology and descriptions of usage are correct.

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: #7.3 Adoption as an International Standard under the existing PSDO agreement. Refer to Jodi Haasz of IEEE Staff.

#5.4 IEEE Std 802.1X : IEEE Standard for Local and metropolitan area networks - Port-Based Network Access Control

#5.5 Revision to incorporate amendments:

IEEE Std 802.1AEbn-2011 : Amendment 1: Galois Counter Mode - Advanced Encryption Standard - 256 (GCM-AES-256) Cipher Suite

IEEE Std 802.1AEbw-2014: Amendment 2: Extended Packet Numbering IEEE Std 802.1AEcg-2017: Amendment 3: Ethernet Data Encryption devices