

P802.11ae

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Type of Project: Amendment to IEEE Standard 802.11-2007

PAR Request Date: 03-Oct-2009

PAR Approval Date: 09-Dec-2009

PAR Expiration Date: 31-Dec-2013

Status: PAR for an Amendment to an existing IEEE Standard 802.11-2007

Project Record: 802.11

1.1 Project Number: P802.11ae

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications; Amendment: Prioritization of management frames

3.1 Working Group: Wireless LAN Working Group (C/LM/WG802.11)

Contact Information for Working Group Chair

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3.2 Sponsoring Society and Committee: IEEE Computer Society/Local and Metropolitan Area Networks (C/LM)

Contact Information for Sponsor Chair

Name: Paul Nikolich

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2012

4.3 Projected Completion Date for Submittal to RevCom: 10/2013

5.1 Approximate number of people expected to be actively involved in the development of this project: 50

5.2 Scope: This amendment defines mechanisms for prioritizing IEEE 802.11 management frames using existing mechanisms for medium access.

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

5.4 Purpose: This amendment enables improved performance of IEEE 802.11 networks and the applications that use these networks, by providing mechanisms to prioritize IEEE 802.11 management frames using existing mechanisms for medium access.

5.5 Need for the Project: IEEE 802.11-2007 and subsequent amendments have introduced additional Management frames that, under some circumstances, could adversely affect the performance of some IEEE 802.11 networks and the applications that use those networks

5.6 Stakeholders for the Standard: Manufacturers and users of semiconductor, personal computer, enterprise networking device, consumer electronic device, home networking equipment, mobile devices.

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 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: Do Not Know

Organization:

Technical Committee Name:

Technical Committee Number:

Contact Name:

Phone:

Email:

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): Additional notes for Item 5.2 Scope:

These mechanisms will be backward compatibility with currently deployed IEEE 802.11 networks.

This project will consider the classification and prioritization of management frames

This project will consider management frames that are used in both pre- and post- association.

Management frames of subtype Action will be considered. Other management frame types may be considered.

These mechanisms should allow for administrative configuration of priorities.

This project may consider default classification and prioritization of management frames.

The security mechanisms defined in IEEE 802.11i-2004 (Security Enhancements), IEEE 802.11r-2008 (Fast Basic Service Set (BSS) Transition), and IEEE 802.11w-2009 (Protected Management Frames)" will be applicable to solutions considered by this project.

Additional notes for Item 7.1 Related Projects

P802.11v (Wireless Network Management) defines encapsulated data frames to transport Event and Diagnostic reports. This project addresses the prioritization of all IEEE 802.11 management frames.