

P802.11

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Type of Project: Revision to IEEE Standard 802.11-2016

PAR Request Date: 25-Jan-2017

PAR Approval Date: 23-Mar-2017

PAR Expiration Date: 31-Dec-2021

Status: PAR for a Revision to an existing IEEE Standard

Project Record: P802.11

Root Project: 802.11-2016

1.1 Project Number: P802.11

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

Changes in title: ~~IEEE~~ Standard for Information ~~technology~~ **Technology** -- Telecommunications and ~~information~~ **Information** exchange ~~Exchange~~ **Exchange** between ~~Between~~ **Between** ~~systems~~ **Systems** Local and ~~metropolitan~~ **Metropolitan** ~~area~~ **Area** ~~networks~~ **Networks** -- Specific ~~requirements~~ **Requirements** - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications

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

Contact Information for Working Group Chair

Name: Adrian Stephens

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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: 06/2019

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2021

5.1 Approximate number of people expected to be actively involved in the development of this project: 300

5.2 Scope: The scope of this standard is to define one medium access control (MAC) and several physical layer (PHY) specifications for wireless connectivity for fixed, portable, and moving stations (STAs) within a local area.

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

5.4 Purpose: The purpose of this standard is to provide wireless connectivity for fixed, portable, and moving stations within a local area. This standard also offers regulatory bodies a means of standardizing access to one or more frequency bands for the purpose of local area communication.

5.5 Need for the Project: The reason for this project is to incorporate accumulated maintenance changes (editorial and technical corrections)

into 802.11-2016, and roll up of approved amendments to the standard. The approved amendments as of the filing of the revision PAR include IEEE 802.11ah-2016 and IEEE 802.11ai-2016. Seven additional amendments are currently under development.

5.6 Stakeholders for the Standard: The stakeholders of this standard are the developers and users of the Wireless LAN devices, including wireless network access service providers, manufacturers, health care workers, retail service providers, and many others.

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: The RAC may want to review for correct and consistent usage of registry terms.

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: 5.5 This is a revision PAR to incorporate accumulated maintenance changes (editorial and technical corrections) and approved amendments into the IEEE Std 802.11-2016 standard.

The additional amendments currently under development are P802.11aj Enhancements for Very High Throughput to support Chinese millimeter wave frequency bands, P802.11ak Enhancements For Transit Links Within Bridged Networks, P802.11aq Pre-Association Discovery, P802.11ax Enhancements for High Efficiency WLAN, P802.11ay Enhanced Throughput for Operation in License-Exempt Bands Above 45 GHz, P802.11az Enhancements for Positioning, and P802.11ba Wake-up radio operation.

5.5 The two approved amendments are:

IEEE 802.11ai-2016: Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment 1: Fast Initial Link Setup and

IEEE 802.11ah-2016: Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment 2: Sub 1 GHz License-Exempt Operation