
P802.11

Submitter Email: dstanley1389@gmail.com
Type of Project: Revision to IEEE Standard 802.11-2020
Project Request Type: Initiation / Revision
PAR Request Date: 07 Dec 2020
PAR Approval Date: 10 Feb 2021
PAR Expiration Date: 31 Dec 2025
PAR Status: Active
Root Project: 802.11-2020

1.1 Project Number: P802.11
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Information Technology -- Telecommunications and Information Exchange Between Systems Local and Metropolitan Area Networks -- Specific Requirements - Part 11: Wireless Local Area Network (LAN) Medium Access Control (MAC) and Physical Layer (PHY) Specifications
Change to Title: ~~IEEE~~ Standard for Information Technology -- Telecommunications and Information Exchange ~~between~~ Between Systems ~~Local and Metropolitan Area Networks -- Specific Requirements -~~ Part 11: Wireless Local Area Network (LAN) Medium Access Control (MAC) and Physical Layer (PHY) Specifications

3.1 Working Group: Wireless LAN Working Group(C/LM/802.11 WG)
3.1.1 Contact Information for Working Group Chair:
Name: Dorothy Stanley
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3.1.2 Contact Information for Working Group Vice Chair:
Name: Jon Rosdahl
Email Address: jrosdahl@ieee.org
3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LM)
3.2.1 Contact Information for Standards Committee Chair:
Name: Paul Nikolich
Email Address: p.nikolich@ieee.org
3.2.2 Contact Information for Standards Committee Vice Chair:
Name: James Gilb
Email Address: gilb@ieee.org
3.2.3 Contact Information for Standards Representative:
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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot: Jun 2023
4.3 Projected Completion Date for Submittal to RevCom: Jun 2024

5.1 Approximate number of people expected to be actively involved in the development of this project: 300
5.2 Scope of proposed standard: 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 contingent 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: This project is needed to incorporate accumulated maintenance changes (editorial and technical corrections) into the standard and to include approved amendments. The amendments include P802.11ax, P802.11ay, and P802.11ba which are expected to be ratified in early 2021. Six additional amendments are currently under development.
Change to Need for the Project: ~~The reason for this~~ This project is needed to incorporate

accumulated maintenance changes (editorial and technical corrections) into ~~802.11-2016, the and standard roll and up to of include~~ approved amendments to the standard. The approved amendments ~~as include of P802.11ax, the P802.11ay, filing and of P802.11ba the which revision are PAR expected include to IEEE be 802.11ah-2016 ratified and in IEEE early 802.11ai-2016-2021.~~ ~~Seven Six~~ 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.

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?

No

6.1.2 Is the Standards Committee aware of possible registration activity related to this project?

Yes

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

8.1 Additional Explanatory Notes: 5.5 The amendments currently under development are

1. P802.11ax 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 Enhancements for High Efficiency WLAN
2. P802.11ay 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: Enhanced Throughput for Operation in License-Exempt Bands Above 45 GHz
3. P802.11az 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 - Enhancements for Positioning
4. P802.11ba 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: Wake-up Radio Operation
5. P802.11bb 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: Light Communications
6. P802.11bc 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: Enhanced Broadcast Service
7. P802.11bd 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: Enhancements for Next Generation V2X
8. P802.11be 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: Enhancements for Extremely High Throughput (EHT)
9. P802.11bf 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: Enhancements for Wireless Local Area Network (WLAN) Sensing