

P802.11bi

Type of Project: Amendment to IEEE Standard 802.11-2020

Project Request Type: Modify / Amendment

PAR Request Date: 17 Oct 2025

PAR Approval Date: 10 Dec 2025

PAR Expiration Date: 31 Dec 2027

PAR Status: Active

Root PAR: P802.11bi

Root PAR Approved on: 09 Feb 2021

Root PAR Expiration Date: 31 Dec 2027

Root Project: 802.11-2020

1.1 Project Number: P802.11bi

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 LAN

Medium Access Control (MAC) and Physical Layer (PHY) Specifications

Amendment: Enhanced Service with Privacy Protection

Change to 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) SpecificationsAmendment: Enhanced Service with Privacy Protection

3.1 Working Group: Wireless LAN Working Group(C/LAN/MAN/802.11 WG)

3.1.1 Contact Information for Working Group Chair:

Name: Robert Stacey

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3.1.2 Contact Information for Working Group Vice Chair:

Name: Jon Rosdahl

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3.2 Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee(C/LAN/MAN)

3.2.1 Contact Information for Standards Committee Chair:

Name: James Gilb

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3.2.2 Contact Information for Standards Committee Vice Chair:

Name: David Halasz

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3.2.3 Contact Information for Standards Representative:

Name: George Zimmerman

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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:

Jan 2026

Change to Expected Date of submission of draft to the IEEE SA for Initial Standards Committee

Ballot: ~~Dec~~ Jan 2023 2026

4.3 Projected Completion Date for Submittal to RevCom: Dec 2027

Change to Projected Completion Date for Submittal to RevCom: Dec 2024 2027

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

5.2.a Scope of the complete 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.

5.2.b Scope of the project: This amendment specifies modifications to the IEEE Std 802.11 medium access control (MAC) specification to specify new mechanisms that address and improve user privacy.

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: Users and regulatory agencies are concerned about protecting personal information such as locations, movements, contacts and activities, etc. Devices incorporating IEEE Std 802.11 are ubiquitous, and being compliant with IEEE Std 802.11 does not sufficiently protect users from user tracking and user profiling attacks.

Work has been done in this area in IEEE Std 802.11aq-2018. To ensure continued growth and support for IEEE Std 802.11, this project standardizes user privacy solutions applicable to IEEE Std 802.11.

5.6 Stakeholders for the Standard: Manufacturers and users of semiconductors, personal computers, enterprise networking devices, consumer electronic devices, home networking equipment, and mobile devices; together with cellular operators, transportation industries, multiple system operators, and video content suppliers.

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: 5.2.b: The IEEE Std 802.11TM-2020 requirements regarding user privacy will not be diminished by new requirements added in this amendment.

5.5 The work in this standard is for IEEE 802.11 specific extensions following IEEE 802E-2020 - IEEE Recommended Practice for Privacy Considerations for IEEE 802 Technologies, which highlights techniques and concerns to improve privacy.