IEEE P802.11
Wireless LANs

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| RCMA PAR Proposal  |
| Date: 09/25/2020 |
| Author(s): |
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# PAR

P802.11bi

**Submitter Email:**

**Type of Project:** Amendment to IEEE Standard 802.11-2016

**Project Request Type:** Initiation / Amendment

**PAR Request Date:**

**PAR Approval Date:**

**PAR Expiration Date:**

**PAR Status: Draft**

**Root Project:** 802.11-2016

**1.1 Project Number:** P802.11bi

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

**2.1 Project Title:** IEEE 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 Data Privacy Protection

**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

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**3.2.2 Contact Information for Standards Committee Vice Chair:**

**Name:** James Gilb

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**3.2.3 Contact Information for Standards Representative:**

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**4.1 Type of Ballot: I**ndividual

**4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:**

Dec 2023

**4.3 Projected Completion Date for Submittal to RevCom:** Dec 2024

**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?**

No

**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: IEEE P802E - IEEE Draft Recommended Practice for Privacy

Considerations for IEEE 802 Technologies, highlights techniques and concerns to improve privacy.

IEEE Std 802.11aq™-2018: Preassociation Discovery (Amendment 5)