IEEE P802.11
Wireless LANs

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| RCMA PAR Proposal  |
| Date: 05/11/2020 |
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# PAR

**P802.11**

**Submitter Email:**
**Type of Project:** Amendment to IEEE Standard 802.11
**PAR Request Date:**
**PAR Approval Date:
PAR Expiration Date:
Status:** Unapproved PAR, PAR for an amendment to an existing IEEE Standard

**1.1 Project Number:**
**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: Enhanced service with Data Privacy Protection

**3.1 Working Group:** Wireless LAN Working Group (C/LM/WG802.11)
**Contact Information for Working Group Chair Name:** Dorothy Stanley
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Name:** Jon Rosdahl
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**3.2 Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
**Contact Information for Sponsor Chair**

**Name:** Paul Nikolich
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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:**
**4.3 Projected Completion Date for Submittal to RevCom:**

**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 introduce mechanisms to enable ethical awareness of the data usage associated with data privacy protection. This amendment also aims at facilitating the ability to provide mechanisms for assessing the data privacy practices for asssessors and regulators.

This amendment preserves the existing IEEE Std 802.11 mechanisms that could fulfill current privacy compliance obligations to protect personal data from illegitimate or unauthorized access or from accidental access, processing, erasure, divulging, and facilitate the communications with privacy protection best practices for individuals and organizations.

**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:**

Mobile devices incorporating IEEE Std 802.11 nowadays grow into the pivotal portal for data access. The risk of individual and organizational data privacy violation is significantly pushing business into more careful evaluation of technologies that can enable the privacy protection and assessement. The new privacy fulfillment mechanisms in IEEE Std 802.11 may affect the user experience, and help to build the trust between networks and customers, for example by presenting trust consensus before access to user data helps to allievate the worry.

There is a need toensure that IEEE Std 802.11 provisions that refer to data privacy protection mechanisms being transparent and conditioned on purpose of data usage, for example, the tracking of the user traffic behaviors.

**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

**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**

**If yes please explain:**

**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 (Item Number and Explanation):**

1. Privacy, trust and security are closely interwined, as are law and ethics which oversees the privacy practice principle. An ethical awareness provides means of security safeguard as to the privacy regulation compliances.
2. Data privacy is about access, use and collection of data and data subject’s legal right to the data.
3. IEEE 802.11 std defines the communications, which contains data or auxiliary data related to user.
4. Revelation of user’s behavior, or types of devices, and other involuntary share of data, constitutes the core privacy protection elements.
5. Comply with current privacy protection regulation to protect personal data from illegitimate or unauthorized access or from accidental access, processing, erasure, loss or use.
6. IEEE 802e (<https://1.ieee802.org/security/802e/>) aims to identify the privacy threat models and associated solutions, whereas this proposed project aims to fullfill the requirements of privacy regulation compliance and associated solutions in the context of IEEE 802.11 connectivities.