IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RCM A PAR Proposal | | | | |
| Date: 08/24/2020 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | Email |
| Rob Sun  Edward Au  Osama Aboulmagad | Huawei Technologies |  |  | Rob.sun@huawei.com |
| Carol Ansley |  |  |  | carol@ansley.com |
| Jerome Henry | Cisco Systems | 124 Forest Ridge Lane, Pittsboro NC 27312 | +1 919 392 2503 | jerhenry@cisco.com |

# 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  
**Email Address:** dstanley@ieee.org   
**Phone:** +1(630) 363-1389

**Contact Information for Working Group Vice-Chair   
Name:** Jon Rosdahl  
**Email Address:** jrosdahl@ieee.org  
**Phone:** +1-801-492-4023

**3.2 Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)   
**Contact Information for Sponsor Chair**

**Name:** Paul Nikolich  
**Email Address:** p.nikolich@ieee.org   
**Phone:** +1-857.205.0050

**Contact Information for Standards Representative**

**Name:** James Gilb  
**Email Address:** gilb@ieee.org  
**Phone:** +1-858-229-4822

**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 specify new mechanisms that address and improve user privacy.

**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 are ubiquitous, and IEEE Std 802.11 compliant devices have been the target of various privacy related attacks, e.g. user tracking and user profiling, which have created substantial privacy concerns. Personal mobile devices have been and currently are being used to obtain sensitive, personal information about the devices’ users such as where they go, when they go, to whom they speak to, what information they access, etc.

To ensure continued growth and support for IEEE Std 802.11, modifications are needed that address these user privacy concerns.

IEEE P802E develops privacy threat models and associated solutions. This proposed amendment will work to standardize user privacy solutions applicable to IEEE Std 802.11 technology. The privacy compliance guidelines provided in IEEE P802E will be considered in this proposed amendment.

**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):**

5.5 IEEE P802E: Recommended Practice for Privacy Considerations for IEEE 802 Technologies.