IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A PAR Proposal for BCS | | | | |
| Date: 2018-07-03 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | Email |
| Hitoshi Morioka | SRC Software | 2-14-38 Tenjin, Chuo-ku, Fukuoka 810-0001 Japan |  | hmorioka@src-soft.com |
| Bahar Sadeghi | Intel |  |  | [bahareh.sadeghi@intel.com](mailto:bahareh.sadeghi@intel.com) |
| Xiaofei Wang | InterDigital |  |  | [Xiaofei.Wang@InterDigital.com](mailto:Xiaofei.Wang@InterDigital.com) |
| Yasuhiko Inoue | NTT |  |  | inoue.yasuhiko@lab.ntt.co.jp |
| Marc Emmelmann | Koden TI | Berlin, Germany |  | [emmelmann@ieee.org](mailto:emmelmann@ieee.org) |
| Hiroshi Mano | Koden TI | Tokyo, Japan |  | [mano@koden-ti.com](mailto:mano@koden-ti.com) |
| Stephen McCann | BlackBerry | The Pearce Building, West Street, Maidenhead, SL6 1RL, UK |  | [smccann@blackberry.com](mailto:smccann@blackberry.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 Broadcast Service

**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:**March 2021   
**4.3 Projected Completion Date for Submittal to RevCom:**February 2022

**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 802.11 medium access control (MAC) specifications that enable enhanced transmission and reception of broadcast data before, during, and after association.

**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:**

The number of mobile devices incorporating IEEE Std. 802.11 is steadily growing and new enhanced broadcast services will create new market opportunities.

Enhanced Broadcast Services extends the reach of wireless local area network (WLAN) to markets and use cases that require efficient distribution of local information such as:

* Information announcement systems in public locations, e.g., airports, stadium, etc.
* Sensor information collection, e.g., asset tracking
* Non-safety related transportation applications operating in unlicensed bands

Some of the new enhanced broadcast use cases have requirements for protecting broadcast traffic and also the privacy of that traffic, in ways that are not addressed by the current standard.

Std.group temporal key security association () This project will include enhancements that provides a broadcast frame security framework.

**5.6 Stakeholders for the Standard:**

Manufacturers and users of semiconductors, personal computers, enterprise networking devices, consumer electronic devices, home networking equipment, mobile devices, 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?: Yes**

**If yes please explain:** Project may define new management frames (extending the existing IEEE 802.11 frame structure) to support its new features. These frames may include fields that contain 48-bit MAC addresses. It is not expected that any new namespaces for allocation under RAC control will be defined.

**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):**