P802.11bc

This PAR is valid until 31-Dec-2022.

PAR Extension Request Date:
PAR Extension Approval Date:
Number of Previous Extensions Requested: 0

1. Number of years that the extension is being requested: 2
2. Why an Extension is Required (include actions to complete): An extension is required to complete balloting of the P802.11bc draft.

Working Group balloting is underway, and SA Balloting is expected to begin in September 2022 . Submission to RevCom is anticipated in mid 2023. A two year extension is requested, to avoid the possibility of having to request an additional extension, although completion of the project is expected in 2023.

3..2: The P802.11bc WG ballot pool has 369 members. There are approximately 25 active members in the corresponding Task Group, TGbc.

3.3/3.4: Due to Covid, the WG has been meeting electronically only, and will be starting to meet in in-person/electronic in 2022 (expect 3 in-person opportunities in 2022). The WG meets 6 times per year with numerous additional teleconferences to progress work.
3.1. What date did you begin writing the first draft: 17 Jul 2020
3.2. How many people are actively working on the project:25
3.3. How many times a year does the working group meet?
In person: 3
Via teleconference: 6
3.4. How many times a year is a draft circulated to the working group: 3
3.5. What percentage of the Draft is stable: 95%
3.6. How many significant work revisions has the Draft been through: 12
4. When will/did initial Standards Association Balloting begin: Sep 2022

When do you expect to submit the proposed standard to RevCom: Jul 2023
Has this document already been adopted by another source? (if so please identify) No

For an extension request, the information on the original PAR below is not open to modification.

Type of Project: Amendment to IEEE Standard 802.11-2020
Project Request Type: Initiation / Amendment
PAR Request Date: 27 Sep 2018
PAR Approval Date: 05 Dec 2018
PAR Expiration Date: 31 Dec 2022
PAR Status: Active
Root Project: 802.11-2020

1.1 Project Number: P802.11bc
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 Broadcast Service

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
Email Address: dstanley1389@gmail.com
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

Email Address: p.nikolich@ieee.org

3.2.2 Contact Information for Standards Committee Vice Chair:

Name: James Gilb

Email Address: gilb@ieee.org

3.2.3 Contact Information for Standards Representative:

Name: James Gilb

Email Address: gilb@ieee.org

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot: Mar 2021

4.3 Projected Completion Date for Submittal to RevCom: Feb 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 both in an infrastructure BSS where there is an association between the transmitter and the receiver(s) and in cases where there is no association between transmitter(s) and receiver(s).

This amendment introduces origin authenticity protection for broadcast data frames.

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: 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 Service (eBCS) 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
* Multi-media broadcast

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

The current IEEE Std. 802.11 has a group temporal key security association (GTKSA) security framework for multicast that does not protect origin authenticity between devices having that GTKSA. Such protection is needed in some broadcast use cases.

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: It is expected that no new registries will be defined by the project.

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

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8.1 Additional Explanatory Notes: