IEEE P802.11  
Wireless LANs

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| TGah PAR Extension | | | | |
| Date: 2016-07-25 | | | | |
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Abstract

This document contains the TGah PAR extension request information.    
The actual PAR extension will be created by the 802.11 WG Chair using the red text in this document.

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| **Extension Request for P802.11ah, Approved on 09/30/2014** |
| **Submitter Email:** adrian.p.stephens@intel.com |
| **PAR Expiration Date:** 12/31/2016 |
| **Number of Previous Extensions Requested:** 1 |
| **Number of Years being requested:** 1 |
| **Sponsor:** IEEE Computer Society/Local and Metropolitan Area Networks(C/LM) **Chair:** Paul Nikolich **Email:** p.nikolich@ieee.org  **Phone**: 857.205.0050 |
| **Working Group:** Wireless LAN Working Group(C/LM/WG802.11) **Chair:** Adrian Stephens  adrian.p.stephens@intel.com |
| **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- Sub 1 GHz License-Exempt Operation  **Scope**: This amendment defines an Orthogonal Frequency Division Multiplexing (OFDM) Physical layer (PHY) operating in the license-exempt bands below 1 GHz, e.g., 868-868.6 MHz (Europe), 950 MHz -958 MHz (Japan), 314-316 MHz, 430-434 MHz, 470-510 MHz, and 779-787 MHz (China), 917 - 923.5 MHz (Korea) and 902-928 MHz (USA), and enhancements to the IEEE 802.11 Medium Access Control (MAC) to support this PHY, and provides mechanisms that enable coexistence with other systems in the bands including IEEE 802.15.4 and IEEE P802.15.4g.  The data rates defined in this amendment optimize the rate vs range performance of the specific channelization in a given band.  This amendment also adds support for:  -transmission range up to 1 km  -data rates > 100 kbit/s  while maintaining the IEEE 802.11 WLAN user experience for fixed, outdoor, point to multi point applications.  **Purpose:** The purpose of this amendment defines operation of license-exempt IEEE 802.11 wireless networks in frequency bands below 1 GHz excluding the TV White Space bands. |
| **Do the title, scope and purpose match that of the current draft?** Yes |
| * **Why is an extension required?** An extension is needed to ensure completion of the balloting and publication process on the document. P802.11ah is dependent on P802.11 (Revision mc) and P802.11ai, both of which are expected to be submitted to RevCom in October 2016. The most recent sponsor ballot on Draft 8.0 satisfied the requirement for forwarding the draft to REVCOM, but considering that any exceptional situation or delay to the timeline can occur, we ask for a one year extension to enable us to resolve any issue with completing the project. |
| **Document Development Information:**    a. What date did you begin writing the first draft? May 10, 2013   b. How many people are actively working on the project? 30   c. How many times a year does the working group meet:     1. In person? 6     2. Via teleconference? 20   d. How many times a year is a draft circulated to the working group via electronic means? 4   e. What percentage of the Draft is stable? 100%   f. How many significant work revisions has the Draft been through? 8 |
| **Project Plan**:   When will IEEE sponsor balloting begin? November 2015   When do you estimate that the final IEEE Sponsor ballot will be completed? September 2016   When do you expect to submit the proposed standard to RevCom? Decenmber 2016 |
| **Adoption**:   Will this document be adopted by another source? Yes   **Explanation:** This will be adopted by ISO/IEC JTC1/SC6 using the PSDO process. |

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**References:**

[**https://mentor.ieee.org/802.11/dcn/10/11-10-0001-13-0wng-900mhz-par-and-5c.doc**](https://mentor.ieee.org/802.11/dcn/10/11-10-0001-13-0wng-900mhz-par-and-5c.doc)