**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<802.15.12 PAR draft>** | |
| Date Submitted | [The date the document is contributed, in the format “21 May, 1999”] | |
| Source | [] [] [address] | Voice: [ ] Fax: [ ] E-mail: [ ] |
| Re: | [If this is a proposed revision, cite the original document.]  [If this is a response to a Call for Contributions, cite the name and date of the Call for Contributions to which this document responds, as well as the relevant item number in the Call for Contributions.]  [Note: Contributions that are not responsive to this section of the template, and contributions which do not address the topic under which they are submitted, may be refused or consigned to the “General Contributions” area.] | |
| Abstract | [Description of document contents.] | |
| Purpose | [Description of what the author wants P802.15 to do with the information in the document.] | |
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**P802.15.12**

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**Type of Project:** New IEEE Standard

**PAR Request Date:** 17-Sep-2015

**PAR Approval Date:**

# PAR Expiration Date:

**Status:** Unapproved PAR, PAR for a New IEEE Standard

* 1. **Project Number:** P802.15.12
  2. **Type of Document:** Standard
  3. **Life Cycle:** Full Use

**2.1 Title:** IEEE 802.15.4 LLC for Low-Rate Wireless Personal Area Networks (LR-WPANs)

* 1. **Working Group:** Wireless Personal Area Network (WPAN) Working Group (C/LM/WG802.15)

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* 1. **Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

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* 1. **Type of Ballot:** Individual

# Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2017

* 1. **Projected Completion Date for Submittal to RevCom:** 08/2018
  2. **Approximate number of people expected to be actively involved in the development of this project:** 100
  3. **Scope:** Create a Logical Link Control (LLC) sublayer in the Data Link Layer (DLL), above the IEEE 802.15.4 MAC sublayer that adapts and provides operational configuration of the IEEE 802.15.4 MAC, integrates existing and soon to be released sub-layer functionalities for IEEE 802.15.4, provides protocol differentiation (dispatch), provides configuration for regulatory requirements, and provides DLL protocol extensions from other organizations.

# Is the completion of this standard dependent upon the completion of another standard: No

* 1. **Purpose:** This document will not include a purpose clause.
  2. **Need for the Project:** The 802.15.4 LLC is needed to make the 802.15.4 device agnostic to the higher layer protocols, enable 802.15.4 devices to support multiple higher layer protocols, integrate those standard DLL protocols that sit above the 802.15.4 MAC providing services such as Key Management Protocol (KMP) and Layer 2 routing, fulfill 802.15.4 MAC configuration needs for operation such as network and channel configuration,

5.6 **Stakeholders for the Standard:** The stakeholders include silicon vendors, manufacturers and users of telecom, medical, environmental, energy, and consumer electronics equipment and manufacturers and users of equipment involving the use of wireless sensor and control networks.

**Intellectual Property**

* + 1. **Is the Sponsor aware of any copyright permissions needed for this project?:**
    2. **Is the Sponsor aware of possible registration activity related to this project?:**
  1. **Are there other standards or projects with a similar scope?:** No
  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):**

**5.2 Scope:**

**1)** Examples ofexisting and soon to be released sub-layer functionalities for IEEE 802.15.4 are 6LoWPAN, IEEE 802.15.9 Key Management Protocol, IEEE 802.15.10 Layer 2 Routing Mesh, IETF 6tisch 6top

**2)** Examples of configuration for regulation requirements include PHY Configuration as per country of operation, Device class, Duty cycle constraints, CCA settings (time, threshold, mode)