**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **TG4 2020 Cor1 PAR - Working Draft** | |
| Date Submitted | 11 May 2021 | |
| Source | [Kunal Shah, Itron inc.] | E-mail: [Kunal.Shah@itron.com] |
| Abstract | Draft PAR update for TG4 2020 Cor1 | |
| Purpose | Prepare PAR update for submission | |
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**P802.15.4 2020/Cor1**

**Submitter Email:** pat.kinney@kinneyconsultingllc.com

**Type of Project:** Corrigendum to IEEE Standard 802.15.4

**PAR Request Date:** 11 Aug 2020

**PAR Approval Date:** 24 Sep 2020

**PAR Expiration Date:** 31 Dec 2024

**Status:** Active

**Root Projec**t: 802.15.4-2020

**1.1 Project Number:** P802.15.4-2020/Cor1

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

**2.1 Title:** Standard for Low-Rate Wireless Networks

Corrigendum 1: Correction of errors preventing backward compatibility

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

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

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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 0**1/2022

**4.3 Projected Completion Date for Submittal to RevCom**

**Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months:** 07/2022

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 15

**5.2.a. Scope of the complete standard:** This standard defines the physical layer (PHY) and medium access control (MAC) sublayer specifications for low-data-rate wireless connectivity with fixed, portable, and moving devices with no battery or very limited battery consumption requirements. In addition, the standard provides modes that allow for precision ranging. PHYs are defined for devices operating various license-free bands in a variety of geographic regions.

**5.2.b. Scope of the project:** This corrigendum addresses significant errors found in IEEE Std 802.15.4-2020 and its amendments.

**5.3 Is the completion of this standard dependent upon the completion of another standard: No**

**5.4 Purpose:** The standard provides for ultra low complexity, ultra low cost, ultra low power consumption, and low data rate wireless connectivity among inexpensive devices especially targeting the communications requirements of what is now commonly referred to as the Internet of Things. In addition, some of the alternate PHYs provides precision ranging capability that is accurate to one meter. Multiple PHYs are defined to support a variety of frequency bands.

**5.5 Need for the Project:** This correction is needed to maintain backward compatibility to the millions of currently installed devices implemented to previous versions of the standard.

**5.6 Stakeholders for the Standard:** Wireless semiconductor vendors, and consortiums/standards development organizations such as Connectivity Standards Alliance (CSA, formally known as Zigbee), Thread Group, Wi-SUN Alliance, Wireless- Highway Addressable Remote Transducer Protocol (W-HART), International Society of Automation (ISA)100, Internet Engineering Task Force (IETF) 6tisch, IETF 6lo, European Telecommunications Standards Institute (ETSI) TS 102 887-1, Telecommunications Industry Association (TIA) TR51, and Wireshark

**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:** ~~Note from the NesCom Administrator: This is Corrigendum 1, but the PAR was approved by the Committee as Corrigendum 2. The draft will reflect the correct corrigendum number (1).~~