P802.15.4/Cor2

Submitter Email: kunal.shah@itron.com
Type of Project: Corrigendum to IEEE Standard 802.15.4
PAR Request Date: 15-July-2020
PAR Approval Date:
PAR Expiration Date:
Status: Unapproved PAR, PAR for an Amendment to an existing IEEE Standard

1.1 Project Number: P802.15.4/Cor 2
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Low-Rate Wireless Networks
-Corrigendum 2

3.1 Working Group: Wireless Personal Area Network (WPAN) Working Group (C/LM/WG802.15)
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Name: Robert Heile
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3.2 Sponsoring Society and Committee: IEEE Computer Society/LAN/MAN Standards Committee (C/LM)
Contact Information for Sponsor Chair
Name: Paul Nikolich
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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: 09/2020
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months: 09/2021

5.1 Approximate number of people expected to be actively involved in the development of this project: 10
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 corrects errors found in IEEE Std 802.15.4-2020.

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. In addition, one 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 corrigendum addresses a significant error found in approved IEEE Std 802.15.4-REVd/D06 in the SUN OFDM PHY PHR. 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 ZigBee, Thread, WiSUN, W-HART, ISA100, 6tisch, 6lo, ETSI (TS 102 887-1), TIA (TR51), Wireshark

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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

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8.1 Additional Explanatory Notes: