P802.15.4-2020/Cor 1

Submitter Email:
Type of Project: Corrigendum to IEEE Standard 802.15.4-2020
Project Request Type: Modify / Corrigendum
PAR Request Date:
PAR Approval Date:
PAR Expiration Date:
PAR Status: Draft
Root PAR: P802.15.4-2020/Cor 1
Root PAR Approved on: 23 Sep 2020
Root Project: 802.15.4-2020

1.1 Project Number: P802.15.4-2020/Cor 1
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Low-Rate Wireless Networks - Corrigendum 1:Correction of errors preventing backward compatibility
    Change to Title: Standard for Low-Rate Wireless Networks - Corrigendum ~~2~~ 1 :Correction of errors preventing backward compatibility

3.1 Working Group: Wireless Specialty Networks (WSN) Working Group(C/LM/802.15 WG)
    3.1.1 Contact Information for Working Group Chair:
    Name: PATRICK KINNEY
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    3.1.2 Contact Information for Working Group Vice Chair:
    Name: Richard Alfvin
    Email Address: alfvin@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:
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    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: Jan 2022
Change to Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot: ~~Jul~~ Jan ~~2021~~ 2022
4.3 Projected Completion Date for Submittal to RevCom: Jul 2022
Change to Projected Completion Date for Submittal to RevCom: ~~Dec~~ Jul ~~2021~~ 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 in a variety of geographic regions.
5.2.b Scope of proposed changes: This corrigendum addresses a significant errors found in IEEE Std 802.15.4-2020 and its amendments.
Change to scope of the project: This corrigendum addresses a significant ~~error~~ errors found in ~~approved~~ IEEE Std 802.15.4-2020 ~~in the SUN OFDM~~ and ~~PHY~~ its ~~PHR~~ amendments .

5.3 Is the completion of this standard contingent 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 provide 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

Change to Stakeholders for the Standard: Wireless semiconductor vendors, and consortiums/ standards development organizations such as ~~ZigBee~~ Connectivity Standards Alliance (CSA, formally known as Zigbee) , Thread Group , ~~WiSUN~~ Wi-SUN Alliance , Wireless- Highway Addressable Remote Transducer Protocol (W-HART) , ~~ISA100~~ International Society of Automation (ISA)100 , Internet Engineering Task Force (IETF) 6tisch, IETF 6lo, ~~ETSI~~ European Telecommunications Standards Institute (ETSI) TS 102 887-1 ~~)~~ , Telecommunications Industry Association (TIA) ~~(~~ TR51 ~~)~~ , and Wireshark

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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?
    No

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:
Change to 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).~~