

# P802.15.4-2011/Cor 1

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**Submitter Email:** [gilb@ieee.org](mailto:gilb@ieee.org)

**Type of Project:** Corrigendum to IEEE Standard 802.15.4-2011

**PAR Request Date:** 14-Nov-2012

**PAR Approval Date:**

**PAR Expiration Date:**

**Status:** Unapproved PAR, PAR for a Corrigendum to an existing IEEE Standard

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**1.1 Project Number:** P802.15.4-2011/Cor 1

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard for Local and metropolitan area networks--Part 15.4: Low-Rate Wireless Personal Area Networks (LR-WPANs) - Corrigendum 1

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

**Contact Information for Working Group Chair**

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

**Contact Information for Sponsor Chair**

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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:** 08/2013

**4.3 Projected Completion Date for Submittal to RevCom:** 05/2014

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 100

**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 typically operating in the personal operating space (POS) of 10 m.

Physical layers (PHYs) are defined for

-- Devices operating in the license-free 868-868.6 MHz, 902-928 MHz, and 2400-2483.5 MHz bands

-- Devices with precision ranging, extended range, and enhanced robustness and mobility

-- Devices operating according to the Chinese regulations, Radio Management of P. R. of China doc. #6326360786867187500 or current document, for one or more of the 314-316 MHz, 430-434 MHz, and 779-787 MHz frequency bands

-- Devices operating in the 950-956 MHz allocation in Japan and coexisting with passive tag systems in the band

**5.2.b. Scope of the Proposed changes:** This corrigendum corrects errors that have been found in IEEE Std 802.15.4-2011 and published 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. The raw data rate is high enough (250 kb/s) to satisfy a set of applications but is also scaleable down to the needs of sensor and automation needs (20 kb/s or below) for wireless communications.

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 including

- 868-868.6 MHz
- 902-928 MHz
- 2400-2483.5 MHz
- 314-316 MHz, 430-434 MHz, and 779-787 MHz band for LR-WPAN systems in China
- 950-956 MHz in Japan

**5.5 Need for the Project:** The 802.15.4 maintenance standing committee has identified a few errors in IEEE Std 802.15.4g-2012 and IEEE Std 802.15.4e-2012.

**5.6 Stakeholders for the Standard:** Utilities, semiconductor manufacturers, sensor vendors

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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

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**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 (Item Number and Explanation):**