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**Draft PAR Confirmation Number: 209505656.2785**
**Submittal Email:** bheile@ieee.org [Change Submitter Email](#)
**Type of Project:** PAR for an amendment to an existing Standard 802.15.4-2006

**1.1 Project Number:** P802.15.4c

**1.2 Type of Document:** Standard for

**1.3 Life Cycle:** Full

**1.4 Is this project in ballot now?** No

**1.5 Is the balloting group aware of the PAR modification?**
**2.1 Title of Standard:** IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPANs) - Amendment: Alternative Physical Layer Extension to support one or more of the Chinese 314-316 MHz, 430-434 MHz, and 779-787 MHz bands

**3.1 Name of Working Group:** Wireless Personal Area Network (WPAN) Working Group [Add/Change Working Group](#)
**Contact information for Working Group Chair**

Robert F Heile

Email: bheile@ieee.org

Phone: 781-929-4832

**Contact Information for Working Group Vice Chair**

Email:

Phone:

**3.2 Sponsoring Society and Committee:** IEEE Computer Society/Local and Metropolitan Area Networks (C/LM)

**Contact information for Sponsor Chair:**

Paul Nikolich

Email: p.nikolich@ieee.org

Phone: 857-205-0050

**Contact information for Standards Representative:**

Email:

Phone:

**3.3 Joint Sponsor:/ ( )**
**Contact information for Sponsor Chair:**

Email:

Phone:

**Contact information for Standards Representative:**

Email:

Phone:

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of Submission for Initial Sponsor Ballot:** 2008-07

**4.3 Projected Completion Date for Submittal to RevCom:** 2008-11

**5.1 Approximate number of people expected to work on this project:** 100

**5.2 Scope of Proposed Standard:** This Project will define an amendment to the 802.15.4 standard. This amendment shall define alternate PHY and MAC modifications as needed to support the PHY that complies with the applicable 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.

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

**If yes, please explain:**

**5.4 Purpose of Proposed Standard:** It was always the intention for 802.15.4 to include support for sub 1 GHz band in China. The Chinese WPAN is specifying use of the 314-316 MHz, 430-434 MHz, and 779-787 MHz band for LR-WPAN systems and hence sub 1 GHz band can be used for IEEE802.15.4 in China for the first time. Interference in 314-316 MHz, 430-434 MHz, and 779-787 MHz band is lower than that in 2.4 GHz. Transmission distance in the 314-316 MHz, 430-434 MHz, and 779-787 MHz band is also longer than that in 2.4 GHz. This makes it appropriate for many applications for which 2.4 GHz is not, due to improved range and reliability. The amendment to 802.15.4 will address operation in one or more of the 314-316 MHz, 430-434 MHz, and 779-787 MHz band defined in the Chinese regulations.

**Old Purpose:**

**5.5 Need for the Project:** 802.15.4 has always embraced operation in 2 bands: 2.4 GHz for global use and sub 1 GHz bands as regionally available. Currently 802.15.4 supports 906-928 MHz band in the US and the 868 MHz band in Europe. This amendment will allow for similar operation in the sub 1 GHz band in China for applications benefiting from better propagation characteristics – such as automatic metering, industrial control and monitoring. China is a large and important market which makes undertaking a project like this worthwhile.

**5.6 Stakeholders for the Standard:** Given the expected broad deployment and use of wireless sensor and control networks in every aspect of the environment, the stakeholders include a large community, including residential and commercial building occupants and managers, utilities needing to implement demand response and load control, Telecom service providers and their customers, and similar categories of users.

**Intellectual Property**

**6.1.a.** Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes

If yes, state date: 2007-03-12

If no, please explain:

**6.1.b.** Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

**6.1.c.** 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

If yes, please explain:

**and answer the following:** Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

**7.2 Future Adoptions**

**Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization?** Do not know at this time

If Yes, the following questions must be answered:

Technical Committee Name and Number:

**Other Organization Contact Information:**

**Contact person:**

**Contact Email address:**

**7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety?** No

If yes, please explain:

**7.4 Additional Explanatory Notes: (Item Number and Explanation)****8.1 Sponsor Information:**

Is the scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain:

Contact the [NesCom Administrator](#)