

**Draft PAR Confirmation Number**

**Submittal Email:** eldad.perahia@intel.com

**Type of Project:** PAR for an amendment to existing Standard  
802.11- 2007

**1.1 Project Number:** P802.11

**1.2 Type of Document:** Standard for

**1.3 Life Cycle:** Full

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

**2.1 Title of Standard:** IEEE Standard for Information Technology -  
Telecommunications and Information Exchange Between Systems -  
Local and Metropolitan Area Networks - Specific Requirements - Part  
11: Wireless LAN Medium Access Control (MAC) and Physical Layer  
(PHY) Specifications - Amendment: Enhancements for Very High  
Throughput in the 60 GHz Band

**3.1 Name of Working Group:** Wireless LAN Working  
Group(C/LM/WG802.11)

**Contact information for Working Group Chair**

Bruce Kraemer

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US

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**Working Group Vice Chair:** Jon Rosdahl

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Highland, UT 84003

US, **Email:** jrosdahl@ieee.org

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

**Contact information for Sponsor Chair:**

Paul Nikolich

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**Contact information for Standards Representative:**

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of Submission for Initial Sponsor Ballot:** 2011- 12

**4.3 Projected Completion Date for Submittal to RevCom:** 2012- 12

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

**5.2 Scope of Proposed Standard:**

The scope of this project is to define an amendment that shall define standardized modifications to both the 802.11 physical layers (PHY) and the 802.11 Medium Access Control Layer (MAC) to enable operation in the 60 GHz frequency band (typically 57- 66 GHz) capable of very high throughput. The MAC and PHY specified in this amendment:

- Enable a maximum throughput of at least 1 Gbps, as measured at the MAC data service access point (SAP)
- Enable fast session transfer between PHYs
- Maintain the 802.11 user experience
- Address coexistence with other systems in the band

**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:**

The purpose of the project is to improve the 802.11 user experience by providing significantly higher throughput for local area networking

**Old Purpose:**

**5.5 Need for the Project:** As WLAN usage grows, there exists an increasing need for additional capacity. Additional high bandwidth channels are needed for efficient support of high throughput usage. Mainstream wired LAN products have shifted to Gigabit per second speeds. WLAN technology must advance to provide a comparable throughput.

**5.6 Stakeholders for the Standard:** Semiconductor manufacturers,

personal computer manufacturers, enterprise networking device manufacturers, consumer electronic device manufacturers, Home networking equipment suppliers.

### **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: 2008- 05- 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

Explanation:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000- 00- 00

Project/Standard Title:

### **7.2 International Standards Activities**

#### **a. Adoptions**

Is there potential for this standard to be adopted by another organization? No

Organization: ISO/IEC JTC1

Technical Committee Name:

Technical Committee Number:

Contact person Name:

Contact Phone:

Contact Email:

#### **b. Joint Development**

Is it the intent to develop this document jointly with another organization? No

Organization:

Technical Committee Name:

Technical Committee Number:

Contact person Name:

Contact Phone:

Contact Email:

#### **c. Harmonization**

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?

No

Organization:

Technical Committee Name:

Technical Committee Number:

Contact person Name:

Contact Phone:

Contact Email:

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

5.2) Fast session transfer between 60 GHz and 2.4/5 GHz bands will enable typical WLAN coverage for multi-band devices. However, this does not imply that devices must be multi-band. The amendment will specify a mechanism for multi-band devices. It is in the best interest of users and the industry to strive for a level of coexistence between wireless systems. VHT will investigate coexistence with other systems in the 60 GHz band.

Contact the [NesCom Administrator](#)