2006-09-28 IEEE C802.16-06/023r2

Project	le P802.16m PAR Proposal te 2006-09-28	
Title		
Date Submitted		
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Abstract	This contribution proposes a P802.16m PAR for an advanced 802.16 air interface.	
Purpose	For consideration for forwarding to the IEEE 802 EC.	
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Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures (Version 1.0) <a href="http://ieee802.org/16/ipr/patents/policy.html">http://ieee802.org/16/ipr/patents/policy.html</a> >, including the statement "IEEE standards may include the known use of patent(s), including patent applications, if there is technical justification in the opinion of the standards-developing committee and provided the IEEE receives assurance from the patent holder that it will license applicants under reasonable terms and conditions for the purpose of implementing the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair <a href="mailto:r.b.marks@ieee.org">mailto:r.b.marks@ieee.org</a> as early as possible, in written or electronic form, of any patents (granted or under application) that may cover technology that is under consideration by or has been approved by IEEE 802.16. The Chair will disclose this notification via the IEEE 802.16 web site	

## **Draft PAR Confirmation Number:** Submittal Email: r.b.marks@ieee.org **Type of Project:** Amendment to an Existing Standard 802.16-2004 1.1 Project Number: P802.16m 1.2 Type of Document: Standard for 1.3 Life Cycle: Full 1.4 Is this project in ballot now? No **Old Title:** IEEE Standard for 2.1 Title of Standard: IEEE Standard for Local and metropolitan area networks - Part 16: Air Interface for Fixed Broadband Wireless Access Local and metropolitan area Systems – IEEE Standard for Local and metropolitan area networks networks - Part 16: Air Part 16: Air Interface for Fixed and Mobile Broadband Wireless Interface for Fixed Broadband Access Systems - Advanced Air Interface Wireless Access Systems 3.1 Name of Working Group: Broadband Wireless Access Working Group Contact information for Working Group Chair Roger B Marks Email: r.b.marks@ieee.org Phone: 1-303-725-4626 **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: 1-857-205-0050 **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: 2009-03 4.3 Projected Completion Date for Submittal to RevCom: 2009-11 5.1 Approximate number of people expected to work on this project: 300

**5.2 Scope of Proposed Standard:** This amendment provides an advanced air interface to meet the requirements of next generation mobile networks. This standard is intended for incorporation into the IMT-Advanced standardization activity being conducted by the International Telecommunications Union – Radiocommunications Sector (ITU-R). The amendment is based on the WirelessMAN-OFDMA specification and provides continuing support for legacy subscriber stations.

**Old Scope:** 

- **5.3** Is the completion of this standard is dependent upon the completion of another standard: Yes If yes, please explain: The project is dependent on the completion of IMT-Advanced requirements on a timely basis.
- **5.4 Purpose of Proposed Standard:** The purpose of this standard is to update the WirelessMAN-OFDMA air interface in accordance with the requirements defined for the internationally agreed radio interface standards for next generation mobile networks such as IMT-Advanced. **Old Purpose:**
- **5.5** Need for the Project: The International Telecommunications Union Radiocommunications Sector (ITU-R), is preparing to develop the IMT-Advanced radio interface standards to provide advanced air interface specifications for mobile telecommunications. Under the current schedule, initial proposals for IMT-Advanced are anticipated to be solicited for mid-2008, and standardization is expected to continue through 2009. This project will seek to develop an advanced IEEE 802.16 air interface by working cooperatively with ITU-R and its members.
- **5.6 Stakeholders for the Standard:** Vendors developing IEEE 802.16 products, and customers using IEEE 802.16 products, are interested parties in the development of this amendment project. In addition, ITU-R and the members of ITU-R are interested parties.

#### **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: 2006-09-25

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? Yes

If yes, please explain:

Other standards developing organizations may develop proposals for inclusion in IMT-Advanced. However, we have no specific knowledge of such proposals at this time.

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? Yes

If Yes, the following questions must be answered: Technical Committee Name and Number: ITU-R

## Other Organization Contact Information:

Contact person: José Costa

Contact Email address: costa@nortel.com

# 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)

2.1 Title of Standard:

The title of this PAR should be:

"IEEE Standard for Local and metropolitan area networks - Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems – Advanced Air Interface"

However, the automatic PAR titling system does not permit the assignment of this name.

Note that the base of the title must contain the words "and Mobile". These words are not in the title of IEEE 802.16-2006, but the title was modified by IEEE 802.16e-2005.

### 3.3 Joint Sponsor:

The PAR submittal form does not allow for the entry of Joint Sponsor information. The Joint Sponsor is as follows:

Joint Sponsor: IEEE Microwave Theory and Techniques Society

Contact information for Sponsor Chair: Richard Snyder

Email: r.snyder@ieee.org Phone: +1-201-492-1207

### 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: