

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	
2.1 Title of Standard: IEEE Standard for Local and metropolitan area networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Amendment: IEEE Standard for Local and metropolitan area networks - Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems Advanced Air Interface	
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: 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 standard amends the IEEE 802.16 WirelessMAN-OFDMA	Old Scope:

specification to provide an advanced air interface for operation in licensed bands. It meets the cellular layer requirements of IMT-Advanced next generation mobile networks ~~as specified in Rec. ITU-R M.1645~~. This amendment provides continuing support for legacy [WirelessMAN-OFDMA](#) equipment.

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 provide performance improvements necessary to support future advanced services and applications, such as those described by the ITU in Report ITU-R M.2072.

Old Purpose:

5.5 Need for the Project: The International Telecommunications Union Radiocommunications Sector (ITU-R) is developing 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 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, licensed carriers using IEEE 802.16 products, members of the WiMAX Forum™ and members of ITU-R.

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: 2006-11-13
 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: It is anticipated that other standards will also be submitted to the ITU-R for IMT-Advanced. At this time, there is no indication about the number of standards that may be proposed or the number of standards that may be adopted by the ITU-R for IMT-Advanced.

Other IEEE 802 projects ~~have the opportunity to may~~ target aspects of IMT-Advanced, ~~but the scope of this standard is expected to be unique within IEEE 802.~~

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: Jose 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)

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

5.2 Scope

Some of the specific requirements ~~specified in Rec. ITU-R M.1645~~ that this amendment will target are:

100 Mbits/s - high mobility, ~~as defined in Recommendation ITU-R M.1645~~

Frequency bands - licensed ~~mobile~~ bands ~~as identified in Report ITU-R M.2079~~ below 6 GHz

Target cell size: Micro and Macro-cells as defined in Table 7-15 of Report ITU-R M.2078

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](#)