

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	P802.16m PAR Proposal	
Date Submitted	2006-09-28	
Source(s)	Roger B. Marks NextWave Broadband, Inc. Scott Probasco Nokia Phil Barber Huawei Jose Puthenkulam Siavash Alamouti Sassan Ahmadi Reza Arefi Intel Corporation	DS Park Panyuh Joo Samsung Electronics Brian Kiernan InterDigital Communications Corp. Sean Cai ZTE San Diego Inc.
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.	
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.	
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.	
Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures (Version 1.0) < http://ieee802.org/16/ipr/patents/policy.html >, 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 < mailto:r.b.marks@ieee.org > 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 < http://ieee802.org/16/ipr/patents/notices >.	

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

<p>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 International Telecommunications Union – Radiocommunications Sector (ITU-R). The amendment is based on the WirelessMAN-OFDMA specification and provides continuing support for legacy subscriber stations.</p>	<p>Old Scope:</p>
<p>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.</p>	
<p>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.</p>	<p>Old Purpose:</p>
<p>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.</p>	
<p>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.</p>	
<p>Intellectual Property</p> <p>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:</p> <p>6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No If yes, please explain:</p> <p>6.1.c. Is the Sponsor aware of possible registration activity related to this project? No If yes, please explain:</p>	
<p>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.</p> <p>and answer the following: Sponsor Organization: Project/Standard Number: Project/Standard Date: 0000-00-00 Project/Standard Title:</p>	
<p>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</p> <p>If Yes, the following questions must be answered: Technical Committee Name and Number: ITU-R</p>	

<p>Other Organization Contact Information: Contact person: José Costa Contact Email address: costa@nortel.com</p>	
<p>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:</p>	
<p>7.4 Additional Explanatory Notes: (Item Number and Explanation) 2.1 Title of Standard:</p> <p>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"</p> <p>However, the automatic PAR titling system does not permit the assignment of this name.</p> <p>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.</p> <p>3.3 Joint Sponsor:</p> <p>The PAR submittal form does not allow for the entry of Joint Sponsor information. The Joint Sponsor is as follows:</p> <p>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</p>	
<p>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:</p>	