

---

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >
Title	<b>Proposed P802.16m PAR Extension Request</b>
Date Submitted	<b>2010-07-27</b>
Source(s)	Roger Marks WiMAX Forum* r.b.marks@ieee.org * < <a href="http://standards.ieee.org/faqs/affiliationFAQ.html">http://standards.ieee.org/faqs/affiliationFAQ.html</a> >
Re:	IEEE Project P802.16m
Abstract	This contribution proposes a request to extend the P802.16m project beyond the end of 2010.
Purpose	To encourage the 802.16 Working Group adopt a P802.16m PAR extension request (at Session #69) and forward it to the IEEE 802 Executive Committee for approval at the end of Session #70. The 802.16m Task Group should first agree to the details of the PAR extension request and forward the proposal to the 802.16 Working Group.
Notice	<i>This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups.</i> It represents only the views of the participants listed in the "Source(s)" field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein.
Copyright Policy	The contributor is familiar with the IEEE-SA Copyright Policy < <a href="http://standards.ieee.org/IPR/copyrightpolicy.html">http://standards.ieee.org/IPR/copyrightpolicy.html</a> >.
Patent Policy	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: < <a href="http://standards.ieee.org/guides/bylaws/sect6-7.html#6">http://standards.ieee.org/guides/bylaws/sect6-7.html#6</a> > and < <a href="http://standards.ieee.org/guides/opman/sect6.html#6.3">http://standards.ieee.org/guides/opman/sect6.html#6.3</a> >. Further information is located at < <a href="http://standards.ieee.org/board/pat/pat-material.html">http://standards.ieee.org/board/pat/pat-material.html</a> > and < <a href="http://standards.ieee.org/board/pat">http://standards.ieee.org/board/pat</a> >.

---

# Proposed P802.16m PAR Extension Request

*Roger Marks, WiMAX Forum*

## **1. Background**

The P802.16m Project Authorization Request (PAR) was approved by the IEEE-SA Standards Board in December 2006. It expires in December 2010. The content is included in Annex 2.

Although IEEE Sponsor Ballot is in progress, it is not possible to ensure the completion of the P802.16m project in time for submittal by the RevCom deadline of 18 October 2010. Thus, the PAR stands to time out at the end of 2010 unless renewed.

The minimum extension is one year.

## **2. Proposal**

The IEEE 802.16 Working Group should complete a PAR extension request at Session #69. It should presubmit this request to NesCom prior to the deadline of 18 October for consideration at the NesCom meeting of 8 December. It should also notify the IEEE 802 Executive Committee (EC) of that presubmittal, seeking approval of the EC no later than the EC meeting of 12 November.

Proposed content of the PAR extension request is included in Annex 1.

The 802.16m Task Group should agree to the details of the PAR extension request and forward the proposal to the 802.16 Working Group.

## Annex 1: Proposed Content of P802.16m PAR extension request of December 2010

This PAR is valid until 31-Dec-2010. The original PAR was approved on 06-Dec-2006

**PAR Extension Request Date:** 17-Sep-2010

**Extension Request Submitter Email:** r.b.marks@ieee.org

**Why is an extension required?:** This complex project was timed to align with the IMT-Advanced development process of ITU-R. Although IEEE Sponsor Ballot is in progress, it is not possible to ensure its completion in time for submittal by the RevCom deadline of 18 October 2010. Thus, the PAR stands to time out at the end of 2010 unless renewed.

**Do the title, scope and purpose match that of the current draft?:** Yes

**Number of Previous Extensions Requested:** 0

**Number of Years Being Requested:** 1

**Document Development Information**

a. **What date did you begin writing the first draft?:** 11-Dec-2008

b. **How many people are actively working on the project?:** 200

c. **How many times a year does the working group meet?**

**In person?:** 7

**Via teleconference?:** 0

d. **How many times a year is a draft circulated to the working group via electronic means?:** 7

e. **What percentage of the Draft is stable?:** 95%

f. **How many significant work revisions has the Draft been through?:**

9

**Project Plan**

**When will IEEE sponsor balloting begin?:** 09-Jun-2010

**When do you expect to submit the proposed standard to RevCom?:**  
18-Feb-2011

**Has this document already been adopted by another source?:** No

## Annex 2: Content of P802.16m PAR approved in December 2006

---

For an extension request, the information on the original PAR below is not open to modification.

---

**Submitter Email:** [r.b.marks@ieee.org](mailto:r.b.marks@ieee.org)

**Type of Project:** Amendment to IEEE Standard 802.16-2004

---

**1.1 Project Number:** P802.16m

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

---

**2.1 Title:** IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems - Amendment: Advanced Air Interface

---

**3.1 Working Group:** Broadband Wireless Access Working Group (C/LM/WG802.16)

**Contact Information for Working Group Chair**

**Name:** Roger Marks

**Email Address:** [r.b.marks@ieee.org](mailto:r.b.marks@ieee.org)

**Phone:** 1 619 393 1913

**Contact Information for Working Group Vice-Chair**

None

---

**3.2 Sponsoring Society and Committee:** IEEE Computer Society/LAN/MAN Standards Committee (C/LM)

**Contact Information for Sponsor Chair**

**Name:** Paul Nikolich

**Email Address:** [p.nikolich@ieee.org](mailto:p.nikolich@ieee.org)

**Phone:** 857.205.0050

**Contact Information for Standards Representative**

None

---

**3.3 Joint Sponsor:** IEEE Microwave Theory and Techniques Society (MTT)

**Contact Information for Sponsor Chair**

None

**Contact Information for Standards Representative**

None

---

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial**

**Sponsor Ballot:** 03/2009

**4.3 Projected Completion Date for Submittal to RevCom:** 11/2009

---

**5.1 Approximate number of people expected to be actively involved in the development of this project:** 300

**5.2 Scope:** This standard amends the IEEE 802.16 WirelessMAN-OFDMA 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. This amendment provides continuing support for legacy WirelessMAN-OFDMA equipment.

**5.3 Is the completion of this standard 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:** 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.

**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 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, licensed carriers using IEEE 802.16 products, members of the WiMAX Forum™ and members of ITU-R.

---

## **Intellectual Property**

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

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

---

**7.1 Are there other standards or projects with a similar scope?:** No

## **7.2 Joint Development**

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

---

**8.1 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 5.2

Scope

Some of the specific requirements that this amendment will target are:

- 100 Mbit/s - high mobility
- Frequency bands - licensed mobile bands below 6 GHz
- Target cell size: Micro and Macro-cells as defined in Table 7-15 of Report ITU-R M.2078

"IMT" is an ITU-R abbreviation for "international mobile telecommunications".