P802.16

Submitter Email: r.b.marks@ieee.org
Type of Project: Revision to IEEE Standard 802.16-2009
PAR Request Date: 18-Mar-2011
PAR Approval Date: 17-May-2011
PAR Expiration Date: 31-Dec-2015
Status: PAR for a Revision to an existing IEEE Standard
Root Project: 802.16-2009

1.1 Project Number: P802.16
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Air Interface for Broadband Wireless Access Systems

Old Title: IEEE Standard for Local and metropolitan area networks Part 16: Air Interface for Broadband Wireless Access Systems

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
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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
Phone: 857.205.0050
Contact Information for Standards Representative
None

3.3 Joint Sponsor: IEEE Microwave Theory and Techniques Society/Standards Coordinating Committee (MTT/SCC)
Contact Information for Sponsor Chair
Name: Michael Janezic
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4.1 Type of Ballot: Individual
4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 09/2011
4.3 Projected Completion Date for Submittal to RevCom: 02/2012

5.1 Approximate number of people expected to be actively involved in the development of this project: 100

5.2 Scope: This standard specifies the air interface, including the medium access control layer (MAC) and physical layer (PHY), of combined fixed and mobile point-to-multipoint broadband wireless access (BWA) systems providing multiple services. The MAC is structured to support the WirelessMAN-SC, WirelessMAN-OFDM, and WirelessMAN-OFDMA PHY

Old Scope: This standard specifies the air interface, including the medium access control layer (MAC) and physical layer (PHY), of combined fixed and mobile point-to-multipoint broadband wireless access (BWA) systems providing multiple services. The MAC is structured to support multiple PHY specifications, each suited to a particular operational environment.

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5.3 Is the completion of this standard dependent upon the completion of another standard: Yes
If yes please explain: Completion is co-contingent on IEEE Std 802.16M project, in which the WirelessMAN-Advanced air interface will be split from IEEE Std 802.16 and moved to IEEE Std 802.16M.

5.4 Purpose: This standard enables rapid worldwide deployment of innovative, cost-effective, and interoperable multivendor broadband wireless access products, facilitates competition in broadband access by providing alternatives to wireline broadband access, encourages consistent worldwide spectrum allocation, and accelerates the commercialization of broadband wireless access systems.

Old Purpose: This standard enables rapid worldwide deployment of innovative, cost-effective, and interoperable multivendor broadband wireless access products, facilitates competition in broadband access by providing alternatives to wireline broadband access, encourages consistent worldwide spectrum allocation, and accelerates the commercialization of broadband wireless access systems.

5.5 Need for the Project: Revision of the standard is required to incorporate three complex amendments (P802.16h, P802.16j, and P802.16m) and to allow the WirelessMAN-Advanced radio interface to be moved to a standalone IEEE Std 802.16M. Such a split will result in more practical maintenance of the two radio interfaces. It will also ease the ongoing activities of maintaining the ITU's IMT-Advanced recommendations, which reference WirelessMAN-Advanced, and the ITU's IMT-2000 recommendations, which reference the WirelessMAN-OFDMA air interface in the earlier revision of IEEE Std 802.16. To assure that WirelessMAN-Advanced remains specified by an IEEE 802 standard, the revision and this new standard are co-contingent.

5.6 Stakeholders for the Standard: ITU-R Working Party 5D, the WiMAX Forum, vendors developing IEEE 802.16 products, and operators using IEEE 802.16 products.

Intellectual Property
6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: Yes
If yes please explain: IEEE Std 802.16-2009 says:

Grateful acknowledgment is made to Cable Television Laboratories for the permission to use the following source material:

Radio Frequency Interface Specification (version 1.1), part of Data-Over-Cable Service Interface Specifications, (C) Copyright 1999, Cable Television Laboratories.

Baseline Privacy Plus Interface Specification, (C) Copyright 1999, Cable Television Laboratories.

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: Yes
If yes please explain: IEEE Std 802.16-2009 says:

The 24-bit Operator ID shall be assigned as an IEEE 802.16 Operator ID by the IEEE Registration Authority.

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

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8.1 Additional Explanatory Notes (Item Number and Explanation): (7.3) Section 7.3 was completed using the on-line PAR form to refer to the potential of adoption by ITU-R Working Party 5D. However, the content of Section 7.3 was not included when the system generated the PAR output.

Note: "WirelessMAN(R)" is an IEEE trademark.