

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Discussion Draft of Vehicular MBWA PAR</b>	
Date Submitted	<b>2002-06-20</b>	
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Re:	Preliminary PAR for MBWA	
Abstract	This contribution proposes a preliminary draft PAR for a vehicular MBWA project. It is contributed by the SG Chair to stimulate discussion.	
Purpose	SG Chair’s draft to stimulate discussion and facilitate progress toward work on separate projects on Vehicular and Pedestrian Mobility. The Pedestrian Mobility drafts are based on C802.16SGM-02/02, C802.16SGM-02/03 and C802.16SGM-02/11. The Vehicular Mobility drafts are based on C802.16SGM-02/08 and C802.16SGM-02/11.	
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	<p>The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures (Version 1.0) &lt;<a href="http://ieee802.org/16/ipr/patents/policy.html">http://ieee802.org/16/ipr/patents/policy.html</a>&gt;, 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.”</p> <p>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 &lt;<a href="mailto:r.b.marks@ieee.org">mailto:r.b.marks@ieee.org</a>&gt; 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 &lt;<a href="http://ieee802.org/16/ipr/patents/notices">http://ieee802.org/16/ipr/patents/notices</a>&gt;.</p>	

## IEEE-SA Standards Board Project Authorization Request (PAR) Form (2002)

For a review of the Standards Development Process (designed to assist the Working Group, Working Group Chair, Sponsor Chair, and Society Liaison), please click here.

1. Assigned Project Number (Please contact the NesCom Administrator if this is a new PAR): P802. xy

2. Sponsor Date of Request: 2002-07-08

3. Type of Document (Please check one)

- Standard for {document stressing the verb "shall"}
- Recommended Practice for {document stressing the verb "should"}
- Guide for {document in which good practices are suggested, stressing the verb "may"}

4. Title of Document: Draft Local and Metropolitan Area Networks – Standard Air Interface for Mobile Broadband Wireless Access Systems Supporting Vehicular Mobility – Physical and Media Access Control Layer Specification

5. Life Cycle

- Full Use (5-year life cycle)
- Trial Use (2-year life cycle)

6. Type of Project:

- New standard
- Revision of existing standard (indicate Number and year existing standard was published in box to the right) (####-YYYY)
- Amendment to an existing standard (indicate Number and year existing standard was published in box to the right) (####-YYYY)
- Corrigendum to an existing standard (indicate Number and year existing standard was published in box to the right) (####-YYYY)
- Revised PAR (indicate PAR Number and Approval Date here: P - (YYYY-MM-DD)  
Is this project in ballot now? No  
State reason for revising the PAR in Item #18.

7. Contact information of Working Group Chair who must be an SA member as well as an IEEE and/or Affiliate Member

Name of Working Group(WG) : IEEE 802. xy Working Group on Mobile Broadband Wireless Access

Name of Working Group Chair:

First Name:                      Last Name:

Telephone:  
FAX:  
EMAIL:

8. Contact Information of Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair. The Official Report must be an SA member as well as an IEEE and/or Affiliate Member

Name of Official Reporter (if different than Working Group Chair):

First Name:                      Last Name:

Telephone:  
FAX: 9  
EMAIL:

9. Contact information of Sponsoring Society or Standards Coordinating Committee

Sponsoring Society and Committee: Computer Society, LAN/MAN Standards Committee

Sponsor Committee Chair:

First Name: Paul              Last Name: Nikolich

Telephone: 978-749-9999 x246

FAX: 78-749-8888

EMAIL: p.nikolich@ieee.org

10. Sponsor Balloting Information (Please choose one of the following)

Choose one from the following:

- Individual Balloting
- Entity Balloting
- Mixed Balloting (combination of Individual and Entity Balloting)

Expected Date of Submission for Initial Sponsor Ballot: 2004-03-30

Please review the PAR form three months prior to submitting your draft for ballot to ensure that the title, scope and purpose on the PAR form match the title, scope and purpose on the draft. If they do not match, you will need to submit a revised PAR.

Additional communication and input from other organizations or other IEEE Standards Sponsors should be encouraged through participation in the working group or the balloting pool.

11. Projected Completion Date for Submittal to RevCom:

If this is a REVISED PAR and the completion date is being extended past the original four-year life of the PAR, please answer the following questions.

If this is not a revised PAR, please go to question #12

Statement of why the extension is required:

When did you begin writing the first draft?:

How many people are actively working on the project?:

How many times a year does the working group meet in person?:

How frequently is a draft version circulated to the working group via electronic means?:

How much of the Draft is stable (Format: NN%)?: %

How many significant working revisions has the Draft been through?:

Briefly describe what the development group has already accomplished, and what remains to be done:

## 12. Scope of Proposed Project

[Projected output including technical boundaries. REVISED STANDARDS - Projected output including the scope of the original standard, amendments and additions. Please be brief (less than 5 lines).]:

This standard specifies the physical and media access control layer of the air interface of interoperable mobile broadband wireless access systems targeting aggregate channel data rates higher than 1Mbps. Channel data rates shall be scalable with the channel bandwidth. The user data rate may be allocated on a fully flexible and adaptive basis. This standard supports cell sizes appropriate to ubiquitous metropolitan-area networks and supports various vehicular mobility classes up to 500 km/h, as defined in ITU-R Recommendation M.1034-1. It applies to systems operating in licensed bands allocated by the ITU-R or other radio regulators to the Mobile Service and suitable for the above mobility classes. Systems may employ either a TDD or an FDD channel structure. The air interface is designed to carry IP based traffic.

## 13. Purpose of Proposed Project:

[Intended users and user benefits. REVISION STANDARDS - Purpose of the original standard and reason for the standard's revision. Please be brief (less than 5 lines).]:

To enable worldwide deployment of cost effective, spectrum efficient, ubiquitous, always-on and interoperable multi-vendor mobile broadband wireless access networks. To provide an efficient packet based air interface optimized for IP. Utilization of frequencies that are compatible with ITU-R and other regulatory agencies frequency allocations to Mobile Services will address end user markets that include access to Internet and intranet applications by mobile professionals as well as access to infotainment services

## 14. Intellectual Property {Answer each of the questions below}

Sponsor has reviewed the IEEE patent policy with the working group?

Yes

Sponsor is aware of copyrights relevant to this project?

Yes

Sponsor is aware of trademarks relevant to this project?

Yes

Sponsor is aware of possible registration of objects or numbers due to this project?

Yes

15. Are there other standards or projects with a similar scope?

Yes, with explanation below

Explanation: ITU and the 3G partnership projects are developing mobile data air-interface specifications. The approach taken in these specifications is as an extension/derivation from existing circuit switched architectures, this approach imposes performance and cost penalties on data transport. This project adopts an approach of defining an air-interface optimized for IP data that will result in a cost effective mobile broadband wireless data solution.

Related but non-duplicative work is ongoing in ITU-R Working Party 8F, in the ITU-T SSG on "IMT-2000 and Systems Beyond", in the 3GPP RAN Technical Specification Group and in the 3GPP2 TSG-A and TSG-C.

If Yes, please answer the following:

Sponsor Organization:

Project Number:

Project Date:

Project Title:

16. International Sponsor Organization

Is there potential for this standard (in part or in whole) to be submitted to an international organization for review/adoption?

Yes{ Yes/No/?? if you don't know at this time }

If Yes, please answer the following questions:

International Committee Name and Number: Potential for inclusion by reference in the work of 3GPP, 3GPP2 and the ITU.

International Organization Contact Information:

Contact First Name:

Contact Last Name:

Contact Telephone Number:

Contact FAX Number:

Contact E-mail address:

17. Will this project focus on health, safety or environmental issues?

No{ Yes/No/?? if you don't know at this time }

If Yes: Explanation? [ ]

18. Additional Explanatory Notes: {Item Number and Explanation}

Additional spectrum may be reallocated for mobile use in the future. The proposed project will address those allocations.

The PAR Copyright Release and Signature Page must be submitted either by FAX to 732-562-1571 or as an e-mail attachment in .pdf format to the NesCom

Administrator before this PAR will be sent on for NesCom and Standards Board approval.