Project	**IEEE 802 Executive Committee Study Group on Mobile Broadband Wireless Access** <**http://grouper.ieee.org/groups/802/mbwa**>
Title	**Proposed Revision to MBWA IEEE-SA Standards Board Project Authorization Request**
Date Submitted	**2002-08-30**
Source(s)	Reza Arefi Email: reza@arraycomm.com Joanne Wilson Email: joanne@arraycomm.com Arraycomm, Inc. 2300 N Street, NW; Suite 700 Phone: 202-383-3355 Washington, D.C. 20037, USA Fax: 202-721-9818 John L. Fan Email: jfan@flarion.com Samir Kapoor Email: skapoor@flarion.com Flarion Technologies 135 Route 202/206 South, Voice: 908-997-2000 Bedminster, NJ 07921 Fax: 908-997-7090
Re:	MBWA ECSG Call for Contributions
Abstract	This submission proposes modifications to the document 802m_ecsg-02/01. The proposed changes are restricted to the answer to question 12 on the "Scope of Proposed Project."
Purpose	
Notice	This document has been prepared to assist IEEE 802 MBWA ECSG. 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 MBWA ECSG.
Patent Policy	The contributor is familiar with IEEE patent policy, as outlined in Section 6.3 of the IEEE-SA Standards Board Operations Manual <http://standards.ieee.org/guides/opman/sect6.html#6.3> and in *Understanding Patent Issues During IEEE Standards Development* <http://standards.ieee.org/board/pat/guide.html>.

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: 2004-11-30

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 medium access control layers of the air interface for
interoperable mobile broadband (e.g., peak data rates per user in excess of 1 Mbps) wireless access
systems targeting spectral efficiencies, sustained user data rates and user capacities that are
significantly higher than those achieved by existing mobile communications systems.

This standard supports a cellular architecture with cell sizes appropriate to ubiquitous metropolitan-
area networks and supports various vehicular mobility classes (as defined in ITU-R M.1034-1) up
to 250 Km/h. It applies to systems operating in licensed bands below 3.5 GHz allocated to mobile
services. The standard shall allow for use of either time-division or frequency-division duplexing.
The air-interface is optimized for carrying IP-based wireless data 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. The standard will address end user markets that include access to
Internet, intranet, and enterprise applications by mobile users 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: The 3G partnership projects are developing mobile data air-interface
specifications. The approach taken in these specifications is an
extension/derivation from existing circuit switched architectures imposing
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-C

Francois Courau
Chairman - 3GPP TSG-RAN
Alcatel / ETSI
+33 1 30 77 94 68

3GPP2 TSG-C Chairman
Jean Alphonse
Lucent Technologies
(630)979-1056
Email: alphonse@lucent.com

Mr. John Visser
Chairman - ITU-T SSG
Nortel Networks
P.O.Box 3511, Station C

Ottawa, Ontario K1Y 4H7, Canada
Tel.: + 1 613 763 70 28
Fax: + 1 613 765 62 57
E-mail: jvisser@nortelnetworks.com

Mr. Colin Langtry
ITU-R Counsellor for Study Group 8
International Telecommunication Union (ITU)
Radiocommunication Bureau (BR)
Place des Nations
CH-1211 Geneva 20
Switzerland
 colin.langtry@itu.int
 +41 22 730 6178
 +41 22 730 5806

WP8F Chairman
Mr Stephen Blust
Cingular Wireless
Tel: +1 404 236 5924
Email: Stephen.blust@cingular.com

In addition T1P1.4 has a project on WWINA which addresses standards related to the radio and network aspects systems optimized for internet data applications in low mobility (handoff) environments.

Asok Chatterjee
Chairman, T1P1
Ericsson, Inc.
6160 Stoneridge Mall Road, Suite 400
Pleasanton, CA 94588

   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 inclusion by international and nationally recognized Standards Development Organizations (e.g. the ITU, TIA, ETSI,ARIB, TTC, TTA, CWTS, and T1 Standards Committee)

	Phone	Fax	e-mail
ARIB			
Eiko IRYO	+81 3 5510 8593	+81 3 3592 1103	iryo@arib.or.jp
Fumihiko HADA	+81-3-5510-8594	+81-3-3592-1103	f-hada@arib.or.jp
CWTS			
Xu JINGHAO	+86 10 6809 4407	+86 10 6803 4801	xujh@bupt.edu.cn
ETSI Secretariat			
Susanna KOOISTRA	+33 4 92 94 49 35	+33 4 92 38 52 83	susanna.kooistra@etsi.fr
T1 Standards Committee			
Steve BARCLAY	+1 202 434 8832	+1 202 347 7125	sbarclay@atis.org
TTA			
Lee BONG-KUK	+82 2 723 7077	+82 2 736 0384	bklee@www.tta.or.kr
Dae Jung KIM	+8231 724 0093	+8231 724 0109	
TTC			
Keiji YOSHINO	+81 3 3432 1551	+81 3 3432 1553	yoshino@ttc.or.jp
TIA			
Cheryl J. BLUM	+1 630-713-1449,	+1 630-713-1921	cjblum@lucent.com

International Organization Contact Information:
Contact First Name: See Above
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.

IEEE-SA Standards Board
Working Guide for the Project Authorization Request (PAR) Form

This guide has been prepared to assist in the submittal of the PAR for consideration by the New Standards Committee (NesCom) and approval by the IEEE-SA Standards Board as an IEEE Standards Project. Submitters should also refer to the latest edition of the IEEE-SA Standards Board Operations Manual.

A PAR must be received by the IEEE-SA Standards Department at least 40 calendar days before the next IEEE-SA Standards Board meeting. Submittal deadlines for the year 2002 are available. Please note that the PAR may be approved via our continuous processing program. For more information on this program, please go to our website at http://standards.ieee.org/faqs/contproc.html.

1. Assigned Project Number

New Standards Projects: Leave blank.
Standards Revision/Update: Enter PAR number from existing standard.

Note: New project numbers are assigned by the IEEE Standards Department. Please confer with IEEE staff if a specific project number is desired.

2. Sponsor Date of Request

Enter the date when the PAR is submitted to the IEEE-SA.

3. Type of Document

For the submitter's reference, standards are documents with mandatory requirements and are generally characterized by the use of the verb "shall."

Recommended practices are documents in which procedures and positions preferred by IEEE are presented and are generally characterized by the use of the verb "should."

Guides are documents in which alternative approaches to good practice are   suggested, but no clear-cut recommendations are made. They are generally categorized by the use of the verb "may."

4. Title of Document

Enter the title of the document.

The project title should include the type of document. For example:

1. Standard Test Method for...
2. Recommended Practice for...
3. Guide for...

The title should not contain the acronym "IEEE". This is added to the title   when published.

All acronyms should be spelled out.

5. Life Cycle

A standard can be designated trial-use or full-use.

A standard can be designated for trial use when a draft satisfies the standards-developing group (i.e., subcommittee or working group), but needs input from a very broad constituency. This is a preferred alternative to the widespread distribution of unapproved drafts. Such a draft requires a letter ballot of the sponsor and approval by the IEEE-SA Standards Board as a trial-use standard. Trial-use standards are effective for not more than two years from the date of publication. In the absence of comments received in the trial period, the document is subject to adoption as a full-use standard upon receipt of written recommendation from the sponsor and approval by the IEEE-SA Standards Board.

6. Type of Project

Indicate whether this work will result in a new standard, a revision of an existing standard (indicate standard number and year), an amendment (formerly   supplement) to an existing standard (indicate standard number and year), or a corrigendum (indicate standard number and year). Amendments are additions to existing standards and may contain substantive corrections and/or errata to the standard. Corrigenda are substantive corrections and/or errata to a standard.

If this is an update to an existing PAR, indicate the original PAR number, approval date and ballot status.

If this is a PAR revision, provide a short explanation of the changes to the original PAR. Rationale MUST be submitted with the PAR revision request under Item #18.

7. Contact Information of Working Group Chair

Indicate the Name, Telephone Number, FAX Number and E-mail address of the Working Group (WG) Chair. The Working Group Chair must be an SA member as well as an IEEE and/or Affiliate Member. IEEE/IEEE-SA membership number is required.

8. Contact Information for Official Reporter, Project Editor or Document Custodian

Indicate the Name, Telephone Number, FAX Number and E-mail address of the Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair. The Official Reporter must be an SA member as well as an IEEE and/or Affiliate Member. IEEE/IEEE-SA membership number is required.

9. Contact Information of Sponsoring Society or Standards Coordinating Committee

Enter the name of the sponsoring society and the name of the sponsoring committee (i.e., Power Engineering/Switchgear, not PE/SWG) responsible for the development and coordination of the project and for the maintenance of the document after approval by the Standards Board. The name entered here should not be confused with the name of the group writing the standard. If the project is sponsored by two or more committees, enter all committee names and indicate that the work is a jointly sponsored project. When a Standards Coordinating Committee (SCC) is developing the document, enter the SCC number and name as the sponsor (i.e., Standards Coordinating Committee 4 - Thermal Rating).

10. Sponsor Balloting Information:

Is the balloting group for this project expected to be composed of individuals, of entities (persons representing corporations/government bodies/academic institutions, or SDO's), or a combination of both? See Section 5.4.1 in the IEEE-SA Standards Board Operations Manual for further explanation.

For the expected date of submission for initial balloting entry, enter the date the draft standard is planned to be submitted to the IEEE for balloting. Make the entry in numerical month-year format.

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

Enter the date the draft standard is planned to be submitted to RevCom for processing. Make the entry in numerical month-year format (not to exceed four years from the date of PAR submission). Cutoff dates for submitting draft standards to RevCom are generally in February, May, August and October. Check the appropriate calendars for the specific date as the draft matures. Use a best estimate for the PAR.

12. Scope of Proposed Project

The submittal should clearly and concisely define the scope of the document. The scope generally describes "what" will be done, i.e. the technical boundaries of the project. For example:

"Scope: This project will develop a standard protocol for the control of printers. This protocol will be independent of the underlying datastream or page description language used to create the printed page. This protocol will be usable by all classes of printers. This project is limited to management and control of printers and will not include management or control of printing   systems or subsystems."

The Scope of a revision to a standard or a revision to the Scope of an existing PAR shall represent the new Scope. If the Scope is different from the original Scope, provide an indication of the differences in Item #18.

13. Purpose of Proposed Project

The submittal should clearly and concisely define the purpose of the document. The purpose generally describes "why" a project will be done. For example:

"Purpose: There is currently no defined, independent standard for controlling printers. Each vendor builds some control into the underlying page description language or datastream. Without an independent, openly defined protocol, applications and operating systems cannot automatically determine the type of printer being addressed. This protocol will provide a minimum implementation subset which will allow automatic identification and configuration of printers and vendor extensibility to provide for growth and product differentiation."

The purpose of the document should be consistent with the description of the document in Item 3, the title in Item 4, and the scope in Item 12. If the title of the document is "Guide for...," it is inconsistent if the purpose states "This document will describe standard criteria..."

The scope, purpose and/or title indicated on the PAR should agree in principle with the scope, purpose and/or title stated in the document at the time of submittal to the IEEE-SA Standards Board.

If this is a PAR to revise the standard, explain here why changes are being made to the standard. This may be due to a change in industry, the introduction of new technology, etc.

The Purpose of a revision to a standard or a revision to the Purpose of an existing PAR shall represent the new Purpose. If the Purpose is different from the original Purpose, provide an indication of the differences in Item #18.

14. Intellectual Property

If an IEEE standards-developing committee chooses to include patented technology in its standard, early disclosure of these patents is valuable. Early disclosure notifies the standards developers and the IEEE of the patent in the most timely manner and gives participants the greatest opportunity to evaluate the benefits the patented technology may offer a draft standard. However, the standards

developers should not take any action that could be interpreted as requiring any participant in the development process to undertake a patent search of its own portfolio or of any other. The objective is to obtain early disclosure concerning the existence of patents, where known.

If the proposed standard uses copyrighted material, copyright releases must be obtained by the working group and included in the final package submitted to the IEEE-SA Standards Board. Additionally, remember that during development of your approved project, the proper IEEE copyright notices must be maintained on all drafts.

If the proposed standard uses any trademarked terms, permission for use must be obtained from the owner. Refer to Section 6 of the IEEE-SA Standards Board Operations Manual for IEEE patent, copyright, and trademark policies.

If the proposed standard will require the unique identification of objects or numbers by the IEEE for use in industry, this should be indicated. An example of this type of registration is the unique manufacturer ID, known as Organizationally Unique Identifier (OUI).

15. Are there other Standards or Projects with a Similar Scope?

Identify any standard(s) or project(s) of similar scope(s), both within or outside of the IEEE, and explain the need for an additional standard in this area.

16. International Sponsor Organization

If the project is intended to be submitted to the appropriate international technical committee as the basis of or for inclusion in an international standard, or if this standard is intended to be adopted as the international standard, this should be noted here. It is important for all working group members to be aware of international activity within their area of technical expertise.

17. Will this Project focus on Health, Safety or Environmental Issues?

No intensive research required; only obvious or general health, safety, or environmental issues that would be affected by this work need to be cited.

18. Additional Explanatory Notes:

If you know of any further information that may assist NesCom in recommending approval for your project, please include this information here.

If this is a revised PAR or a PAR for the revision of a standard, a short explanation of the changes to the original PAR and rationale MUST be submitted under this item.

Copyright Form (separate page)

The copyright form, the last page in the electronic PAR form (and a separate page), must be submitted by FAX to the IEEE-SA office before the PAR will be approved. In order to comply with

US copyright law, the IEEE and its legal counsel request that a copyright agreement be signed by the Official Reporter, who is usually the chair of the working group. This signed copyright agreement is an official part of the IEEE Standards Project Authorization Request (PAR). The PAR will not be submitted to the IEEE-SA Standards Board until the copyright agreement is signed by the proper person.

If you have any questions, please contact the NesCom Administrator.