

## 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):  
P802.16e

2. Sponsor Date of Request: 15-NOV-02

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 Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems - Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands"

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) IEEE Std 802.16-2001as modified by IEEE 802.16a (####-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 802.16 Working Group on Broadband Wireless Access

Name of Working Group Chair:  
First Name: Roger    Last Name: Marks  
Telephone: +1 (303) 497 3037  
FAX: +1 509 756 2642  
EMAIL: r.b.marks@ieee.org

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:  
EMAIL:

9. Contact information of Sponsoring Society or Standards Coordinating Committee

Sponsoring Society and Committee: C/LM and MTT  
Sponsor Committee Chair:  
First Name: Paul      Last Name: Nikolich  
Telephone: 978 749 9999 x246  
FAX: 978 749 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: 14-NOV-03

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: 14-MAY-04

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 document provides enhancements to IEEE Std 802.16/802.16a to support subscriber stations moving at vehicular speeds and thereby specifies a system for combined fixed and mobile broadband wireless access. Functions to support higher layer handoff between base stations or sectors are specified. Operation is limited to licensed bands suitable for mobility between 2 and 6 GHz. Fixed 802.16a subscriber capabilities shall not be compromised. (See 18)

#### 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 increase the market for Broadband Wireless Access solutions by taking advantage of the inherent mobility of wireless media. This standard will fill the gap between very high data rate WLANs and very high mobility cellular systems and will support fixed and mobile services for both enterprise and consumer markets.

#### 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?

No

Sponsor is aware of trademarks relevant to this project?

Yes

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

No

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

Yes, with explanation below

Explanation:

The ETSI BRAN HIPERMAN Project is currently focusing on licensed frequencies between 2 and 11 GHz and license-exempt frequencies in the 5.725-5.875 GHz band. No mobility is supported.

TP1.4 is currently developing air interface standards for medium data rate, low speed mobility. The individual user data rates specified by this group range from 8 Kb/s to 2 Mb/s.

IEEE 802.11, ETSI HIPERLAN/2 and 802.15 address primarily short range WLAN and WPAN applications, respectively. This amendment is specifically directed towards longer-range wireless point to multipoint MAN systems that provide access to core public networks.

ITU-R Working Party 8F in conjunction with 3GPP and 3GPP2 are developing air interfaces for IMT-2000 both mobile and fixed applications. The work targets CDMA and W-CDMA, with relatively low spectral efficiency and data rate per user, as compared with 802.16 solutions.

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: ITU-R JRG 8A-9B

International Organization Contact Information:

Contact First Name: Jose

Contact Last Name: Costa

Contact Telephone Number: +1 613 763-7574

Contact FAX Number: +1 613 763-1225

Contact E-mail address: j.costa@ieee.org

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 }

"(12) Subscriber stations specified herein, when stationary, shall interoperate with base stations specified in IEEE Std 802.16a. Base stations specified herein shall interoperate with stationary subscriber stations specified in IEEE Std 802.16a.

Because the standard will utilize the 802.16/802.16a medium access control layer, it will support multimedia services requiring differentiated Quality of Service, and it will support adaptive physical link control so that subscriber stations can receive higher-rate service when they move more slowly, include more effective antennas, or are otherwise in better link conditions.

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.

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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.