

IEEE-SA Standards Board Project Authorization Request (PAR) Form (2001-Rev 1)

1. Sponsor Date of Request	2. Assigned Project Number	3. PAR Approval Date (to be completed by staff)
2001 Jul 13	P802.16.2a	

Copyright release must be submitted with appropriate signatures by FAX (1-732-562-1571)}

4. Project Title, Recorder and Working Group/Sponsor for this Project

Document type and title: {Place an X in only one option below}

- ☐ **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”}

Title: **Local and Metropolitan Area Networks — Amendment to Recommended Practice for Coexistence of Fixed Broadband Wireless Access Systems**

Name of Working Group (WG): **IEEE 802.16 Working Group on Broadband Wireless Access**

Name of Official Reporter (usually the WG Chair) who must be an SA member as well as an IEEE and/or Affiliate Member: **Roger B. Marks**

IEEE Standards Staff has verified that the Official Reporter (or Working Group Chair) is an IEEE and an IEEE-SA member: ☐ (Staff to check box)

Contact Information:

Telephone **+1 303 497 3037** FAX: **+1 303 497 7828**

E-mail: **r.b.marks@ieee.org**

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

IEEE Standards Staff has verified that the Working Group Chair is an IEEE and an IEEE-SA member: ☐ (Staff to check box)

Contact Information:

Telephone [...] FAX: [...]

E-mail: [...]

Name of Sponsoring Society and Committee: **Computer Society, LAN/MAN Standards Committee; Microwave Theory and Techniques Society**

Name of Committee Sponsor Chair: **Jim Carlo, Chair, LAN/MAN Standards Committee**

IEEE Standards Staff has verified that the Sponsor Chair is an IEEE and an IEEE-SA member: ☐ (Staff to check box)

Contact Information:

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5. Type of Project

a. Is this an update to an existing PAR? [**No**]

If YES, indicate PAR Number/Approval Date [...]

If YES, is this project in ballot now? [...]

[Indicate changes/rationale for revised PAR in Item #16. This should be no more than 5 lines.]

b. Choose one from the following:

[...] New standard

[...] Revision of existing standard {number and year} [...]

[**x**] Amendment to an existing standard {number and year} [...]

[...] Corrigendum to an existing standard {number and year} [...]

6. Life Cycle

[**x**] Full Use (5-year life cycle)

[...] Trial Use (2-year life cycle)

7. Balloting Information

Choose one from the following:

[**x**] Individual Sponsor Balloting

[...] Entity Sponsor Balloting

[...] Mixed Balloting (combination of Individual and Entity Sponsor Balloting)

Expected Date of Submission for Initial Sponsor Ballot: [**November 2002**]

8. Fill in Projected Completion Date for Submittal to RevCom: **March 2003****9. Scope of Proposed Project:**

This project will develop extensions and modifications to IEEE 802.16.2-2001 addressing two distinct topics. The first topic is the coexistence between multipoint systems and point-to-point systems in the frequency range 10-66 GHz, with a focus on the range 23.5 to 43.5 GHz. Two types of point-to-point systems will be considered: those used by fixed BWA operators and those used as individually assigned links, commonly licensed on a "first-come, first-served" basis. The second topic is coexistence among fixed BWA systems operating in licensed bands within the frequency range 2-11 GHz. Clarifications and updates to the existing standard will also be considered.

10. Purpose of Proposed Project:

The purpose of this Amendment is to provide additional coexistence guidelines to license holders, service providers, deployment groups, and system integrators, covering coexistence with point-to-point systems

(primarily from 23.5 - 43.5 GHz) and coexistence among licensed fixed BWA systems operating in the 2-11 GHz frequency range. The equipment parameter values contained within this amended practice will benefit license holders, equipment and component vendors, and industry associations by facilitating the deployment and operation of fixed BWA systems while minimizing the need for case-by-case coordination. A further purpose is to encourage voluntary procedures that facilitate a simpler licensing process for systems operating below 11 GHz, particularly in the 2.5 GHz MMDS/ITFS bands in the USA.

11. Intellectual Property {Answer each of the questions below}

Has the sponsor reviewed the IEEE patent policy with the group? **Yes**

Are you aware of the possibility of any copyrights relevant to this project? **Yes**

Are you aware of the possibility of any trademarks relevant to this project? **Yes**

Are you aware of possible registration of objects or numbers due to this project? **No**

12. Are you aware of any other standards or projects with a similar scope?

Yes

Explanation:

Administrations are developing general coordination criteria and procedures to allow fixed BWA operators to deploy systems. Detailed coexistence guidance, such as described in this PAR, is under development in other regional and international bodies. Studies addressing certain aspects of coexistence are being developed by or have been completed by organizations such as:

- International Telecommunications Union (ITU): ITU-R JRG 8A/9B and ITU-R 9B
- European Telecommunications Standards Institute (ETSI): Technical Committee TM (Transmission and Multiplexing), Working Group TM4 (Fixed Radio Systems)
- Inter-American Telecommunication Commission (CITEL): Permanent Consultative Committee III: Radiocommunications (PCC-III)
- Association of Radio Industries and Businesses (ARIB): R&D Group for the Fixed Wireless Access System
- National Spectrum Managers Association (NSMA)
- Radio Advisory Board of Canada (RABC)
- Conférence Européenne des Postes et Télécommunications (CEPT)

13. International Submissions

Will this standard (in part or in whole) be submitted to an international organization for consideration/adoption?
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If Yes, please answer the following questions:

Which International Organization/Committee **ITU-R**

International Contact Information:

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14. Is this project intended to focus on health, safety or environmental issues?

No

15. Mandatory Coordination

SCC 10 (IEEE Dictionary)

by **DR** {Circulation of **DR**afts}

IEEE Staff Editorial Review by

by **DR**

SCC 14 (Quantities, Units and Letter symbols)

by **DR**

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.

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

The current Recommended Practice concentrates on interference between fixed BWA systems with a multipoint architecture operating in the 23.5 to 43.5 GHz frequency range. In each interference scenario, the victim system has a point-to-multipoint architecture. This project will extend the analysis to include scenarios in which various types of point-to-point system are either the interferer or the victim. It will also add scenarios for multipoint systems operating at lower frequencies. New recommendations and guidelines will be developed appropriate to the new scenarios studied.