



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

(2001-Rev 1)

1. Sponsor Date of Request 2001 Feb 09	2. Assigned Project Number P802.16a	3. PAR Approval Date (to be completed by staff) 2001-03-17
---	--	---

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 Standard Air Interface for Fixed Broadband Wireless Access Systems —Media Access Control Modifications and Additional Physical Layer for 2-11 GHz**

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 [] (Staff to check box)
Chair is an IEEE and an IEEE-SA member:

Contact Information:

Telephone +1 214 340 8837 FAX: +1 214 853 5274

E-mail: jcarlo@ti.com

5. Type of Project

a. Is this an update to an existing PAR? [Yes]

If YES, indicate PAR Number/Approval Date [P802.16.3-2000]

If YES, is this project in ballot now? [No]

[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} [P802.16-2001]

[...] 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: 2001 Nov 30

8. Fill in Projected Completion Date for Submittal to RevCom: 2002 Mar 31

9. Scope of Proposed Project:

This standard specifies the physical layer and media access control layer of the air interface of interoperable fixed point-to-multipoint broadband wireless access systems (e.g., those supporting data rates of DS1/E1 or greater). The specification enables access to data, video, and voice services with a specified quality of service in licensed bands designated for public network access. It applies to systems operating between 2 and 11 GHz.

10. Purpose of Proposed Project:

To enable rapid worldwide deployment of innovative, cost-effective and interoperable multi-vendor broadband wireless access products. To facilitate competition in broadband access by providing wireless alternatives to wireline broadband access. To facilitate coexistence studies, encourage consistent worldwide allocation, and accelerate the commercialization of broadband wireless access spectrum. Utilization of frequencies from 2 to 11

GHz will address a market that includes residences, Small Office-Home Office (SOHO), telecommuters and Small and Medium Enterprises (SME).

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? **Yes**

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

Yes

Explanation:

- T1P1.4 is currently developing air interface standards for Fixed Wireless Access to the PSTN Network. The primary focus of the group is wireless access to POTS, ISDN and Fractional T1/E1 services delivered via the public circuit switched telephone network, although their charter does include packet data services. The individual user data rates currently contemplated by this group range from 8 Kb/s to 2 Mb/s.
- The ETSI BRAN Project is currently focusing on frequencies around 40 GHz but may evolve to frequencies below 11 GHz.
- IEEE 802.11 and 802.15 address primarily short range WLAN and WPAN applications, respectively. The 802.16.3 standard is specifically directed towards longer-range wireless point to multipoint MAN/WAN systems that provide access to core public networks. These systems typically serve large numbers of dispersed subscribers.
- ITU-R Working Party 8F is developing air interfaces for IMT-2000 and access systems beyond IMT-2000 for both mobile and fixed applications.

13. International Submissions

Will this standard (in part or in whole) be submitted to an international organization for consideration/adoption?

Yes

If Yes, please answer the following questions:

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

International Contact Information:

Name: **Dr. José M. Costa**

Address: **P.O. Box 3511, Station C, Ottawa, ON K1Y 4H7 Canada**

Phone: **+1 613 763 7574**

FAX: **+1 613 763 1225**

Email: **costa@nortelnetworks.com**

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}

5a) This revision makes the project an Amendment to P802.16-2001 rather than a standalone document. The title is modified accordingly. The PAR is also brought into the current format.