

PAR FORM

01/03/02

PAR Status: Revision of Amendment

1. Sponsor Date of Request: 11/16/2001

2. Assigned Project Number 802.16a

3. PAR Approval Date: 00/00/00

PAR Signature Page on File Yes

4. Project Title and Working Group/Sponsor for this project Document type and title:

Document type: Standard for

Title: Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Medium Access Control Modifications and Additional Physical Layer Specifications for 2-11 GHz

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

Name of Official Reporter: Roger B Marks

Telephone: (303) 497-3037

FAX: (303) 497-7828

Email: r.b.marks@ieee.org

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

Telephone:

FAX:

Email:

Name of Sponsoring Society and Committee Computer Society/Local and Metropolitan Area Networks

Name of Sponsoring Committee Chair: Paul Nikolich

Telephone: 857-205-0050

FAX: 781-334-2255

Email: p.nikolich@ieee.org

Name of Liaison Rep. (If different than Sponsor Chair):

Telephone:

FAX:

Email:

5. Type of Project:

5a. Is this an update to an existing PAR Yes

If YES: Indicated PAR number/approval date: 802.16a - 3/30/2000

If YES: Is this project in ballot now? No

5b. The project is a Amendment to Std. 802.16-2001

6. Life Cycle: Full Use

7. The type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: 04/30/2002

8. Fill in Projected Completion Date for Submittal to RevCom 8/2/2002

9. Scope of Proposed Project:

This standard specifies the physical layer and medium access control layer of the air interface of interoperable fixed point-to-multipoint (and, in license-exempt bands, optional mesh topology)

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 and license-exempt bands. It applies to systems operating between 2 and 11 GHz, where such services are permitted. This Amendment expands the scope of the IEEE Standard 802.16 by extending it to bands between 2-11 GHz, whereas the scope of the original project was limited to 10-66 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, provide mechanisms for coexistence with other license-exempt band systems such as 802.11 and 802.15, 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

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 other standards or projects with a similar scope Yes

· 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. · 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. · IEEE 802.11, ETSI HIPERLAN/2 and 802.15 address primarily short range WLAN and WPAN applications, respectively. The amendment is specifically directed towards longer-range wireless point to multipoint MAN 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. · Broadband Wireless Internet Forum (IEEE ISTO/BWIF) is developing industry specifications for similar frequency bands and applications. · DVB-RCT (EN 301 958) is an ETSI standard for video distribution and broadband wireless access.

13. Will this standard (in part or in whole) be submitted to an international organization for consideration/Adopti Yes

If yes, please answer the following question:

Which International Organization/Committee ITU

International Contact Information: Jose M Costa

Phone: 613-763-7574

FAX: 613-765-1225

Email: j.costa@ieee.org

14. Is this project intended to focus on health, safety environmental issu No

15. Mandatory Coordination: SCC10 (IEEE Dictionary) by Circulation of Drafts
IEEE Staff Editorial Review by Circulation of Drafts
SCC14 (Quantities, Units and Letter Symbols) by Circulation of Drafts

16. Additional Explanatory Notes:(Item Number and Explanation)

5a) This PAR updates P802.16a to encompass P802.16b and should be accompanied by the withdrawal of the latter. In the process of developing P802.16a and P802.16b drafts, the documents have been integrated technically and editorially and are anticipated to draw largely overlapping ballot pools. Proceeding with separate projects is no longer beneficial.