

PAR FORM

PAR Status: Amendment of Standard (Unapproved PAR)

PAR Approval Date:

PAR Signature Page on File: No

1. Assigned Project Number: P802.11y

2. Sponsor Date of Request: 2005-11-18

3. Type of Document: Standard for

4. Title of Document:

Draft: Amendment to Standard [FOR] Information Technology-Telecommunications and Information Exchange between systems-Local and Metropolitan networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: 3650-3700 MHz Operation in USA

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: Amendment to Std P802.11-1997

7. Working Group Information:

Name of Working Group: Wireless LAN Working Group

Approximate Number of Expected Working Group Members:500

8. Contact information for Working Group Chair:

Name of Working Group Chair: Stuart J Kerry

Telephone: 408-348-3171 **FAX:** 408-474-5343

Email: stuart@ok-brit.com

9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:

Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:

Telephone: **FAX:**

Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: IEEE 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 from the Sponsor Chair):

Telephone: **FAX:**

Email:

Name of Co-Sponsoring Society and Committee:

Name of Co-Sponsoring Committee Chair:

Telephone: **FAX:**

Email:

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: **FAX:**

Email:

11. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: December 2007

12. Projected Completion Date for Submittal to RevCom: December 2008

Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:

13. Scope of Proposed Project:

The scope of the proposed project is the application of 802.11 based systems to the 3650-3700 MHz band in the USA.

Is the completion of this document contingent upon the completion of another document? No

14. Purpose of Proposed Project:

The purpose of this project is to standardise the mechanisms required to allow shared 802.11 operation with other users in the 3650-3700 MHz band in the USA. Likely required mechanisms include: • Specification of new regulatory classes (extending 802.11j) • Sensing of other transmitters (extending 802.11a) • Transmit Power Control (extending 802.11h) • Dynamic Frequency Selection (extending 802.11h)

15. Reason for the Proposed Project:

The existing 802.11 standard and the proposed amendments from currently operating 802.11 Task Groups do not address in detail the rules specified by the FCC for operation in the 3650-3700 MHz band in the USA.

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-06-01
- b. Is the sponsor aware of copyright permissions needed for this project?** No
- c. Is the sponsor aware of trademarks that apply to this project?** No
- d. Is the sponsor aware of possible registration activity related to this project?** No

17. Are there other documents or projects with a similar scope? Yes

The current ETSI HiperMAN and IEEE 802.16-2004 standards do not specifically address the rules specified by the FCC for a Contention-Based Protocol for operation in the 3650-3700 MHz band, nor do they address coexistence with IEEE 802.11 projects, but they do address operation in 3400-3800 MHz bands in other regulatory domains. A coexistence protocol for 802.16 systems, currently being addressed in the P802.16h project, could be employed by devices operating in the US 3650-3700 MHz band.

Similar Scope Project Information:

SimSP: P802.16-2004 SimProjNo: P802.16.2004 SimProjD: P802.16.2004 SimTitle: P802.16 Wireless MAN

18. Is there potential for this document (in part or in whole) to be adopted by another national , regional or international organization? Yes

If yes, the following questions must be answered:

Organization Name? ISO/IEC JTC1 SC6 WG1

Technical

Committee

International Robin Tasker

Contact CLRC

Information? R.Tasker@dl.ac.uk

19. Will this project result in any health, safety, or environmental guidance that affects or applies to human health or safety? No

If yes, please explain:

20. Sponsor Information

- a. Is the scope of this project within the approved/scope/definition of the Sponsor's Charter?** Yes

If no, please explain:

b. The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee? Yes

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

Item 15 – The project will define a protocol that consists of procedures for initiating new transmissions, procedures for determining the state of the channel (available or unavailable), and procedures for managing retransmissions in the event of a busy channel. IEEE 802 standards have not been designed to accommodate operation in 'lightly-licensed' bands (i.e. non-exclusively licensed, without guarantees about interference), and the 5 GHz concepts of 'Dynamic Frequency Selection' and 'Transmit Power Control' should be generalized beyond sharing with radar systems. This proposed project work on a 'Contention-Based Protocol' is likely to be suitable for use in 'lightly-licensed' bands in other regulatory domains. Item 18 – The project intends to use the joint development process defined in ISO/IEC TR 8802-1:2001 to achieve international standardization.