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30 May 2006

Paul Nikolich
18 Bishops Lane
Lynnfield, MA 01940
p.nikolich@ieee.org

Re: P802.11r - Standard for Information Technology-Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications

Dear Paul:

I am pleased to inform you that on 25 May 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2008. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/802-11r.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at j.haasz@ieee.org no later than 23 August 2006.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
Program Manager
International Stds Programs and Governance
Standards Activities
Phone +1 732 562 6367
FAX +1 732 875 0695
Email: j.haasz@ieee.org

CC: stuart@ok-brit.com

PAR Request Date: 09 March 2006**PAR Approval Date:** 25 May 2006**PAR Signature Page on File:** Yes**Type of Project:** Modification to Approved PAR**Status:** Modification to a Previously Approved Amendment PAR 802.11r**Root Project/PAR:** Modification to Approved PAR P802.11-REVma, 2003-03-20**1.1 Project No.:** **P802.11r****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Standard for Information Technology-Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications

Old Title

Amendment to STANDARD [for] Information Technology-Telecommunications and information exchange between systems-Local and metropolitan area networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Fast BSS-Transition

2.1 Amendment/Corrigenda Title

Amendment : Fast BSS-Transition

3.1 Working Group Name[Wireless LAN Working Group](#)**Working Group Chair**[Kerry Stuart J](#)

Phone: 408-348-3171

Email: stuart@ok-brit.com

Working Group Vice Chair**3.2 Sponsor**[IEEE Computer Society Local and Metropolitan Area Networks \(C/LM\)](#)**Sponsor Chair**[Nikolich Paul](#)

Phone: 857-205-0050

Email: p.nikolich@ieee.org

3.3 Joint Sponsor**4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** 2007-09-00**4.3 Projected Completion Date for Submittal to RevCom:** 2008-03-00**5.1 Approximate number of people expected to work on this project:** 450

5.2 Scope: The scope of this project are enhancements to the 802.11 Medium Access Control (MAC) layer to minimize or eliminate the amount of time data connectivity between the Station (STA) and the Distribution System (DS) is absent during a Basic Service Set (BSS) transition, limited to the state necessary for the operation of the MAC. This Project Authorization Request (PAR) will apply only to the STA<->Access Point (AP) state within the same Extended Service Set (ESS), and will not apply to the Independent Basic Service Set (IBSS) case. Security must not be decreased as a result of the enhancement. Timing criteria and timing conditions will be defined by the Task Group. (See also section 7.4)

Old Scope: The scope of this project are enhancements to the 802.11 Medium Access Control (MAC) layer to minimize or eliminate the amount of time data connectivity between the Station (STA) and the Distribution System (DS) is absent during a Basic Service Set (BSS) transition, limited to the state necessary for the operation of the MAC. This Project Authorization Request (PAR) will apply only to the STA<->Access Point (AP) state within the same Extended Service Set (ESS), and will not apply to the Independent Basic Service Set (IBSS) case. Security must not be decreased as a result of the enhancement. Timing criteria and timing conditions will be defined by the Task Group. (See also section 19)

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

5.4 Purpose: The purpose of this project is to improve BSS transitions within 802.11 ESSs and to support real time constraints imposed by applications such as Voice over Internet Protocol (VoIP).

Old Purpose: The purpose of this project is to improve BSS transitions within 802.11 ESSs and to support real time constraints imposed by applications such as Voice over Internet Protocol (VoIP).

5.5 Need for the Project: A new set of Wireless Local Area Network (WLAN) applications are more sensitive to even momentary loss of connectivity during BSS transition (e.g. VoIP). With increasing amounts of state being needed before connectivity is allowed as amendments are made to the 802.11 standard, the time taken to complete a BSS transition is increasing while next generation applications demand decreased BSS transition time.

5.6 Stakeholders for the Standard: The stakeholders are the telecommunications industry.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitted this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes **Presented Date:** 2006-03-06

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

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

Technical Committee Name and Number: ISO/IEC JTC1 SC6

Contact person: [Robin Tasker](#)

Contact person Phone Number: +44-1925-603758

Contact person Email Address: R.Tasker@dl.ac.uk

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

7.4 Additional Explanatory Notes:

This PAR modification is to revise the "Type of Project" section only, to change the document being amended to "IEEE P802.11-REVma". This amendment cannot be approved until after the approval of IEEE P802.11-REVma. Section 5.2: The scope of modifications is during the STA transfer from one AP to another (BSS transition). Determination of the need for a BSS transition, selection of which AP to BSS transition to (with the exception of the advertisement of the availability of fast BSS transition services to the STA), and determination of when to BSS transition are all outside the scope of this project. As a design criteria, the proposed mechanism must accomplish this goal without compromising security or existing Station services.

8.1 Sponsor Information:

Is the Scope of this project within the approved scope/definition of the Sponsor's Charter? Yes

If no, please explain: