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15 September 2006

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

Re: P802.11k - 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 Amendment : Radio Resource Measurement of Wireless LANs

Dear Paul:

I am pleased to report that on 15 September 2006 the IEEE-SA Standards Board approved the extension request of the above-referenced project until 31 December 2008.

If you should have any further questions, please contact me at +1 732 562 6003 or by email at s.hampton@ieee.org.

Sincerely,

Sherry Hampton
Administrator, Governance
Standards Activities
Phone +1 732 562 6003
FAX +1 732 875 0695
Email: s.hampton@ieee.org

CC: stuart@ok-brit.com

IEEE-SA Standards Board Extension Request

Revised 23 June 2004

1. Date of Request: 18-May-06
2. Assigned Project Number: P802.11k
3. Project 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 - Amendment: Radio Resource Measurement of Wireless LANs
 - a. Name of Working Group (WG): Wireless Local Area Networks (802.11)
 - b. Name of Working Group Chair: Stuart J. Kerry
 - c. Name of Sponsoring Society and Committee: Computer Society Local and Metropolitan Area Networks
 - d. Name of Sponsoring Committee Chair: Paul Nikolich
4. Contact Information (Contact should be the person who will answer any questions concerning this extension request):
 - a. Name: Richard Paine
 - b. Telephone: 206-854-8199
 - c. FAX: 425-865-2965
 - d. EMAIL: richard.h.paine@boeing.com
5. Statement of why an extension is required. This should include a description of what the working group has accomplished and what remains to be accomplished, along with the reasons why the work was unable to be completed in the allotted timeframe The TGk of 802.11 is in the final stages of working group balloting. The last letter ballot (LB83) had 720 comments and most are in the minor category. The ballot passed with 82% approval and had 75 no voters. The PAR extension is needed to complete the working group letter ballot and sponsor balloting process.
6. History
 - a. What date was the PAR first approved? 11-Dec-02
 - b. What date did you begin writing the first draft? 26-Mar-03
 - c. How many people are actively working on the project? 450
 - d. How many times a year does the working group meet:
 1. In person? 6
 2. Via teleconference? 30
 - e. How many times a year is a draft circulated to the working group via electronic means? 8
7. Document Progress
 - a. What percentage of the Draft is stable? 95%
 - b. How many significant work revisions has the Draft been through? 4
8. Project Plan

(Item #8a is only for projects that have been balloted. If your draft has not yet gone to ballot, please go to Item #8b)

a. Balloting History - Provide history of all IEEE Sponsor ballots under this project::

1st Ballot Close date (or scheduled close):

1st Ballot Draft Number:

1st Ballot results (% affirmative, %negative, %abstain):

2nd Ballot Close date (or scheduled close):

2nd Ballot Draft Number:

2nd Ballot results (% affirmative, %negative, %abstain):

(Add additional entries for ballots as needed):

When do you estimate that the final IEEE Sponsor ballot will be completed?

When do you expect to submit the proposed standard to RevCom?

b. For projects that have not yet begun Sponsor ballot, please answer the following:

When will IEEE sponsor balloting begin? 6-Sep-06

When do you estimate that the final IEEE Sponsor ballot will be completed? 15-Mar-07

When do you expect to submit the proposed standard to RevCom? 15-Jul-07

9. Future Adoptions

- If this is a new document, will it be adopted (in part or in whole) by another national, regional or international organization? Yes If yes, which organization? ISO
- If this is a revision of an existing document, has this document been adopted by the IEC, ISO, ETSI, SCC, etc? Choose One If yes, which organization?

10. Additional Extensions

a. Is this the first request for an extension? Yes (If yes, please do not go any further. You have completed the form.)

b. If not, when was the previous extension approved?

After completion of this form, please e-mail this to the NesCom Administrator at nescom-admin@ieee.org. Confirmation of submittal will be sent on receipt of this request.

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26 May 2006

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

Re: P802.11k - 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 2006. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/802-11k.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: 08 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 P802.11k, 2002-12-11**Root Project/PAR:** Modification to Approved PAR P802.11-REVma, 2003-03-20**1.1 Project No.:** **P802.11k****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 networks-Specific requirements-Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Radio Resource Measurement of Wireless LANs

2.1 Amendment/Corrigenda Title

Amendment : Radio Resource Measurement of Wireless LANs

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:** 2006-07-00**4.3 Projected Completion Date for Submittal to RevCom:** 2007-03-00**5.1 Approximate number of people expected to work on this project:** 500**5.2 Scope:** This project will define Radio Resource Measurement enhancements to provide interfaces to higher layers for radio and network measurements.**Old Scope:** This project will define Radio Resource Measurement enhancements to provide interfaces to higher layers for radio and network measurements.**5.3 Is the completion of this document contingent upon the completion of another document?** No

5.4 Purpose: The original standard has a basic set of radio resource measurements for internal use only. These measurements and others are required to provide services; such as roaming, coexistence, and others; to external entities. It is necessary to provide these measurements and other information in order to manage these services from an external source.

Old Purpose: The original standard has a basic set of radio resource measurements for internal use only. These measurements and others are required to provide services; such as roaming, coexistence, and others; to external entities. It is necessary to provide these measurements and other information in order to manage these services from an external source.

5.5 Need for the Project: The demand for measurements is driven by WLAN vendors, suppliers, and service providers who are focusing on emerging new technologies. These new technologies include voice-over-ip (VoIP), video-over-ip, location, sensors, and high-throughput wireless that require more robust measurements of the WLAN radio environment.

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/submitting 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? Yes

If yes, please explain:

IETF SNMP The IETF has had a standard for years called the "Simple Network Management Protocol (SNMP)" for access of data about the wired, non-mobile network. The MIBs for this protocol have been defined and allocated. The wireless LAN technologies inject new requirements that include location, mobility, varying power levels, varying signal strength, etc. The IETF has not adequately addressed these requirements for SNMP. Distributed Management Task Force (DMTF) The DMTF has developed a Common Information Model (CIM) that defines the schema needed to retain data measurement information about the fixed network. The Open Group's Mobile Management Forum (MMF). The MMF is defining the requirements and information needed for mobility including the Mobility and Directory and Mobility and Security requirements.

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/JCT1 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. Scope of the Project: The new standard shall be compatible with the IEEE 802.11 MAC. The proposed project facilitates improved management of 802.11 networks by gathering and making available information about the wireless medium and the 802.11 traffic on the wireless medium. The new extensions shall comply with all mandatory portions of the IEEE 802.11 standards and specification. Regulatory Bodies - IEEE P802.11 will correspond with regulatory bodies worldwide in order to assure that the data to be measured will be applicable geographically as widely as possible.

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: