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12 August 2004

Paul Nikolich  
18 Bishops Lane  
Lynnfield, MA 01940  
paul.nikolich@att.net

Re: P802.11.2 - Recommended Practice for the Evaluation of 802.11 Wireless Performance

Dear Paul:

I am pleased to inform you that on 12 August 2004 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/802-11-2.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](mailto:j.haasz@ieee.org) no later than 9 November 2004.

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](mailto:j.haasz@ieee.org).

Sincerely,

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# PAR FORM

**PAR Status:** New PAR

**PAR Approval Date:** 2004-08-12

**PAR Signature Page on File:** Yes

**1. Assigned Project Number:** 802.11.2

**2. Sponsor Date of Request:** 2004-04-05

**3. Type of Document:** Recommended Practice for

**4. Title of Document:**

**Draft:** Recommended Practice for the Evaluation of 802.11 Wireless Performance

**5. Life Cycle:** Full-Use

**6. Type of Project:**

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

**6b. The Project is a:** New Standard

**7. Working Group Information:**

**Name of Working Group:** IEEE 802.11 WLAN

**Approximate Number of Expected Working Group Members:**400

**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:** Computer Society Local and Metropolitan Area Networks

**Name of Sponsoring Committee Chair:** Paul Nikolich

**Telephone:** 857-205-0050 **FAX:** 781-334-2255

**Email:** paul.nikolich@att.net

**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:** 2007-06-30

**12. Fill in Projected Completion Date for Submittal to RevCom: 2007-12-31**

**Explanation for Modified PAR that completion date is being extended past the original four-year life of the PAR:**

**13. Scope of Proposed Project:**

The scope of the project is to provide a set of performance metrics, measurement methodologies, and test conditions to enable measuring and predicting the performance of 802.11 WLAN devices and networks at the component and application level.

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

**14. Purpose of Proposed Project:**

The purpose of the project is to enable testing, comparison, and deployment planning of 802.11 WLAN devices based on a common and accepted set of performance metrics, measurement methodologies and test conditions.

**14a. Reason for the standardization project:**

No 802 project today specifies metrics and measurements that can be carried out by manufacturers and vendors on 802.11 devices and systems themselves. Vendors and others currently conduct performance tests according to no standard methodology or test conditions, making a meaningful comparison of results impossible. 802.19 addresses the coexistence issues between differing 802 wireless protocols, but does not address measurements relating to performance of 802.11 devices specifically. There are no 802.11 standards that address measurement methodologies to enable benchmarking and prediction of wireless network performance. For instance, 802.11k specifies measurements and protocol changes to allow access to wireless LAN information. Furthermore, 802.11k specifies measurements performed by the devices themselves, whereas this Recommended Practice will specify measurements that are performed on the devices by external entities, such as test equipment. Use of the Recommended Practice will increase the reliability of WLAN services by providing repeatable and uniform means to carry out measurements and prediction, thus enabling better deployment choices. The target audience for the Recommended Practice includes developers of chipsets, components, equipment and software that uses or must interact with 802.11 wireless equipment, as well as users of 802.11 equipment, including system installers, IT managers and test laboratories.

**15. Intellectual Property:**

**Has the sponsor reviewed the IEEE patent policy with the working group?** Yes

**Is the sponsor aware of copyrights relevant to this project?** No

**Is the sponsor aware of trademarks relevant to this project?** No

**Is the sponsor aware of possible registration of objects or numbers due to this project?** No

**16. Are there other documents or projects with a similar scope?** No

**Similar Scope Project Information:**

**17. Is there potential for this document (in part or in whole) to be adopted by another national , regional or international organization?** Do not know at this time

**If yes, please answer the following questions:**

**Which International Organization/Committee?**

**International Contact  
Information?**

**18. If the project will result in any health, safety, or environmental guidance that affects or applies to human health or safety, please explain in five sentences or less.**

**19. Additional Explanatory Notes: (Item Number and Explanation)**

Item 13. (Scope) - The project will assume as a baseline the existence of 802.11-1999 Reaff 2003, with Amendments e, g, h, i, j and k. The project may also take as input the work of 802.11 Task Groups n, r and s. The project will coordinate with 802.19 on any potential areas of synergy, such as some of the performance metrics. For the purposes of this project the definition of prediction is as follows: the use of multiple input parameters to estimate performance characteristics useful for 802.11 network planning. Input parameters are defined to be 802.11 device characteristics, network layout and usage parameters. The development of prediction algorithms and network planning methodologies do not fall within the scope of this Recommended Practice.