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22 March 2005

Paul Nikolich
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Re: P802.11w - 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: Protected
Management Frames

Dear Paul:

I am pleased to inform you that on 20 March 2005 the IEEE-SA Standards Board approved the above referenced project until 31 December 2009. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/802-11w.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 18 June 2005.

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
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CC: stuart@ok-brit.com

PAR FORM

PAR Status: Amendment of Standard

PAR Approval Date: 2005-03-20

PAR Signature Page on File: Yes

1. Assigned Project Number: P802.11w

2. Sponsor Date of Request: 2005-02-07

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: Protected Management Frames

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 802.11

7. Working Group Information:

Name of Working Group: IEEE P802.11, Working Group for Wireless LANS

Approximate Number of Expected Working Group Members:450

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@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: March 2007

12. Projected Completion Date for Submittal to RevCom: September 2007

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 proposed project seeks to create enhancements to the IEEE 802.11 Medium Access Control layer to provide, as appropriate, mechanisms that enable data integrity, data origin authenticity, replay protection, and data confidentiality for selected IEEE 802.11 management frames including but not limited to: action management frames, deauthentication and disassociation frames.

Is the completion of this document contingent upon the completion of another document?

No

14. Purpose of Proposed Project:

The purpose is to improve the security of some or all IEEE 802.11 management frames by defining enhancements such as data integrity, data origin authenticity, replay protection, and data confidentiality.

15. Reason for the Proposed Project:

The current IEEE 802.11 standard including amendment 'i' (security) addresses security of data frames but systems are still vulnerable to malicious attack because management frames are unprotected. For example, network disruption can be caused by malicious systems generating false information and impersonating valid equipment.

The work envisioned in this PAR will reduce the susceptibility of systems to such attack and is of importance to all the current applications of IEEE 802.11 and both existing and anticipated amendments. While all 802.11 users will benefit from the proposed amendment, the stakeholders are the Access Point and Network Interface Card vendors.

16. Intellectual Property:

a. Has the IEEE-SA policy on intellectual property been presented to those responsible for

preparing/submitting this PAR? Yes 2005-01-18

- 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? No

Similar Scope Project Information:

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 13 - The new amendment shall be compatible with the IEEE 802.11 MAC, and will not facilitate, enable or cause violation of regulatory restrictions that would limit its geographical usage.

The new extensions shall not conflict with any mandatory portions of the IEEE 802.11 standards and specification and published amendments.

Item 14 - IEEE 802.11 Task Group k and the IEEE 802.11 Wireless Network Management Study Group may take advantage of the mechanisms for protecting management frames developed under this PAR.