



Jodi Haasz

12/16/2002 11:55 AM

To: p.nikolich@ieee.org
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bheile@ieee.org, Stuart.Kerry@philips.com
Subject: New Projects

12 December 2002

Mr. Paul Nikolich
Broadband Access Systems
18 Bishops Lane
Lynnfield, MA 01940

- Re: P802.1ad Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks - Amendment 4: Provider Bridges
- P802.1D Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges
- P802.11j 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: 4.9 GHz - 5 GHz Operation in Japan
- P802.11k 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
- P802.15.3a Amendment to Standard for Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Higher Speed Physical Layer Extension for the High Rate Wireless Personal Area Networks (WPAN)
- P802.15.4 STANDARD FOR Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 15: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPAN)
- P802.16d Amendment to IEEE Standard for Local and metropolitan area networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Detailed System Profiles for 2-11 GHz
- P802.16e Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems - Amendment for Physical and Medium Access Control Layers for Combined Fix and Mobile Operation in Licensed Bands
- P802.17a Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Common

Specifications - Part 3: Media Access Control (MAC) Bridges

P802.20 Local and Metropolitan Area Networks - Standard Air Interface for Mobile
Broadband
Access
Wireless Access Systems Supporting Vehicular Mobility - Physical and Media
Control Layer Specification

P1802.16.2 Standard for Conformance to IEEE Standard 802.16 - Part 2: Test Suite Structure and
Test Purposes (TSS&TP) for 10-66 GHz WirelessMAN-SC Air Interface

Dear Paul:

I am pleased to inform you that on 11 December 2002 the IEEE-SA Standards Board approved the above referenced projects until December 2006, with the exception of P802.15.4, which has been approved until December 2004. Changes were made to the following projects:

- P802.11k - Change the scope to read as "This project will define Radio Resource Measurement enhancements to provide interfaces to higher layers for radio and network measurements."
- P802.17a - Change the purpose to read as "The purpose is to amend the 802.1D transparent bridge standard recognition of the 802.17 Media Access Control (MAC)."

Copies of the files are attached in .pdf format.

Now that your projects have been approved, please forward a roster of participants involved in the development of these projects. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2f under *Duties of the Sponsor* which states:

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

Attached is an Excel spreadsheet for your convenience. Please forward these lists to me via e-mail at j.haasz@ieee.org no later than 1 March 2003.

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
Senior Administrator
IEEE-SA Governance and Electronic Processes

PS - The information in the .pdf file is viewable in Adobe Reader, version 5.0 or higher. If you do not have this software, please go to <http://www.adobe.com/products/acrobat/readstep.html> to download the free version.



Sample Roster.xls



802-1ad.pdf



802-1D.pdf



802-11j.pdf



802-11k.pdf



802-15-3a.pdf



802-15-4.pdf



802-16d.pdf



802-16e.pdf



802-17a.pdf



802-20.pdf



1802-16-2.pdf

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PAR FORM

PAR Status: Revision of New PAR
PAR Approval Date: 2002-12-11
PAR Signature Page on File: Yes
Review of Standards Development Process: No

1. Assigned Project Number: 802.15.4

2. Sponsor Date of Request: 2002-10-25

3. Type of Document: Standard for

4. Title of Document:

Draft: STANDARD FOR Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 15: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPAN)

5. Life Cycle: Full Use

6. Type of Project:

6a. Is this an update to an existing PAR? Yes

If Yes: Indicated PAR number/approval date: 802.15.4 - 2000-12-07

If Yes: Is this Project in Ballot now? Yes

6b. The Project is a: New Standard

7. Contact Information of Working Group:

Name of Working Group: 802.15

Name of Working Group Chair: Robert F Heile

Telephone: 508-222-1393 **FAX:** 508-222-0515

Email: bheile@ieee.org

8. Contact Information of Official Reporter (If different than Working Group Chair)

Name of Official Reporter: (if different than WG contact)

Telephone: FAX:

Email:

9. Contact Information of 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: p.nikolich@ieee.org

Name of Liaison Rep. (If different than Sponsor Chair):

Telephone: FAX:

Email:

10. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: 2002-10-01

11. Fill in Projected Completion Date for Submittal to RevCom: 2003-01-31

Explanation for Revised PAR that Completion date is being extended past the original four-year life of the PAR:

12. Scope of Proposed Project:

This project will define the PHY and MAC specifications for low data rate wireless connectivity with fixed, portable and moving devices with no battery or very limited battery consumption requirements typically operating in the Personal Operating Space (POS) of 10 meters (See 16a). It is foreseen that depending on the application that a longer range at a lower data rate may be an acceptable trade-off (See 16b). It is the intent of this project to work toward a level of coexistence with other wireless devices in conjunction with Coexistence Task Groups, such as 802.15.2.and 802.11/ETSI-BRAN/MMAC 5GSG.

13. Purpose of Proposed Project:

To provide a standard for ultra low complexity, ultra low cost, ultra low power consumption and low data rate wireless connectivity among inexpensive devices. The raw data rate will be high enough (maximum of 250kbs) to satisfy a set of simple needs such as interactive toys, but scaleable down to the needs of sensor and automation needs (20kbps or below) for wireless communications.

14. Intellectual Property:

Sponsor has reviewed the IEEE patent policy with the working group? Yes

Sponsor is aware of copyrights relevant to this project? No

Sponsor is aware of trademarks relevant to this project? No

Sponsor is aware of possible registration of objects or numbers due to this project? No

15. Are you aware of other standards or projects with a similar scope? Yes

Firefly Group - This group (formerly 'HomeRF Lite') is not a standards organization but an Industry consortium that has a similar charter. The Working Group has established a liaison with this group with respect to technical, marketing, and coexistence aspects for other projects, and plans to maintain this liaison, as appropriate, for this project.

Similar Scope Project Information:

16. Is there potential for this standard (in part or in whole) to be submitted to an international organization for review/adoption?:

Do not Know

If yes, please answer the following questions:

Which International Organization/Committee?

International Contact

Information?

17. Will this project focus on Health, Safety or Environmental Issues? No

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

Item #16a) There remains a significant group of applications that could not be addressed by current projects in 802.15 and or by current standards and projects in 802.11. The very long battery life needed for applications such as sensors, meter reading, smart tags/badges, and home automation necessitate low enough power consumption to allow batteries typical to such applications to last multiple months to multiple years. Additionally, the intended applications are envisioned to be very inexpensive, requiring low complexity wireless links that are low cost relative to the intended applications. 16b) These applications would also benefit from the ability to trade-off the data rate and range while preserving the requirements for very long battery life. For example, the three following scenarios: a.) Long range (50m) at a reduced data rate (20kbs) b.) Typical range (~10m) at a full data rate (up to 250kbs) c.) Shortened range with reduced data rate (20kbs) to achieve even longer battery life. Item #13) The reason for proposing a modification in the data rates in the purpose statement of the original PAR is straight forward. In the process of developing the draft standard for 15.4 currently in Sponsor Ballot, we discovered that if we had a raw data rate of 250Kbps vs 200kbps we were able to take advantage of a much simpler and more beneficial regulatory environment in Europe. As it was well within the scope of the proposed market and application space and as it allowed for a better international standard with better performance, the change was deemed logical.