



Sherry
Hampton/STDS/STAFF/US/IE
EE

12/06/2006 07:25 PM

To p.nikolich@ieee.org
cc a.greenspan@ieee.org
bcc s.hampton@ieee.org; Michael
Kipness/STDS/STAFF/US/IEEE@IEEE
Subject Extension Approval of Project - 802.20

06 December 2006

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

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

Dear Paul:

I am pleased to report that on 06 December 2006 the IEEE-SA Standards Board approved the extension request of the above-referenced project until 31 December 2008 with the following conditions:

- 1) The four pending appeals at the IEEE-SA Board of Governors are denied.
- 2) Continued oversight by the 802 Executive Oversight Committee and the IEEE-SA Standards Board Oversight Committee
- 3) Quarterly review of the project by the IEEE-SA Standards Board which could result in the withdrawal of the PAR.

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

Motion passed at the Executive Committee meeting July 21, 2006.

Main Motion: Move the 802 Executive approve the IEEE 802.20 Working Group PAR extension request and form for forwarding to NesCom and SAB for approval.

Move by: Jerry Upton, Chair of 802.20

Seconded by: Bob Heile

Moved to amend: at the end of the motion add: “with modification to limit the extension to six months” and replace “SAB” with “SASB”.

Moved: Sherman/Thaler

Amendment passed

IEEE-SA Standards Board Extension Request

Revised 23 June 2004

1. Date of Request: 19-Jan-06
2. Assigned Project Number: P 802.20
3. Project Title: Local and Metropolitan Area Networks - Standard Air Interface for Mobile Broadband Wireless Access Systems Supporting Vehicular Mobility - Physical and Media Access Control Layer Specification
 - a. Name of Working Group (WG): IEEE 802.20 Working Group on Mobile Broadband Wireless Access
 - b. Name of Working Group Chair: Arnie Greenspan
 - 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: Arnie Greenspan
 - b. Telephone: +1 561 638 7328
 - c. FAX: +1 443 610 3305
 - d. EMAIL: a.greenspan@ieee.org
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 Working Group has progressed its work through a Technology Confirmation Vote for a single Time Division Duplex and Frequency Division Duplex proposal and has started a Working Group Letter Ballot on an 800 plus page draft specification. The group needs to progress through Working Group and Sponsor Ballots for successful completion of the standard. During the past three years the group has completed and approved a significant amount of pre-technology selection work. These documents developed and approved are the following: Channel Models, System Requirements for the Standard, Evaluation Criteria and Technology Selection Process Documents. The group agreed early on that taking the time for the appropriate pre-technology selection preparation would hopefully avoid a lengthy technology selection process and a potential deadlock on selection. The initial selection process was completed in two meeting sessions. However, the time required to obtain consensus and closure on the aforementioned documents was longer than anticipated. Though the group is committed to finish its Working Group Letter Ballot as fast as possible, more than one recirculation ballot is anticipated for a draft of this size. The number of potential recirculations for Sponsor Ballot could be large. Therefore, the group does anticipate requiring more time beyond the end of 2006 to complete its work.
6. History
 - a. What date was the PAR first approved? 11-Dec-02

- b. What date did you begin writing the first draft? 19-Jan-06
c. How many people are actively working on the project? 100
d. How many times a year does the working group meet:
1. In person? 6
2. Via teleconference? 0
e. How many times a year is a draft circulated to the working group via electronic means? N/A

7. Document Progress

- a. What percentage of the Draft is stable? 0%
b. How many significant work revisions has the Draft been through? 0

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? 1-Nov-06

When do you estimate that the final IEEE Sponsor ballot will be completed? 1-Nov-07

When do you expect to submit the proposed standard to RevCom? 1-Jun-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? Do Not Know If yes, which organization?
- If this is a revision of an existing document, has this document been adopted by the IEC, ISO, ETSI, SCC, etc? No 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.



Jodi Haasz

12/16/2002 11:55 AM

To: p.nikolich@ieee.org
cc: M.Klerer@flarion.com, r.b.marks@ieee.org, tony@jeffree.co.uk, tak@cisco.com,
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: New PAR

PAR Approval Date: 2002-12-11

PAR Signature Page on File: Yes

Review of Standards Development Process: No

1. Assigned Project Number: 802.20

2. Sponsor Date of Request: 2002-11-01

3. Type of Document: Standard for

4. Title of Document:

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

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. Contact Information of Working Group:

Name of Working Group: IEEE 802.20 Working Group on Mobile Broadband Wireless Access

Name of Working Group Chair: Mark Klerer

Telephone: 908-997-2069 **FAX:** 908-997-2050

Email: m.klerer@flarion.com

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: 2004-05-26

11. Fill in Projected Completion Date for Submittal to RevCom: 2004-10-01

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

12. Scope of Proposed Project:

Specification of physical and medium access control layers of an air interface for interoperable mobile broadband wireless access systems, operating in licensed bands below 3.5 GHz, optimized for IP-data transport, with peak data rates per user in excess of 1 Mbps. It supports various vehicular mobility classes up to 250 Km/h in a MAN environment and targets spectral efficiencies, sustained user data rates and numbers of active users that are all significantly higher than achieved by existing mobile systems. (See also Item 18)

13. Purpose of Proposed Project:

The purpose of this project is to enable worldwide deployment of cost effective, spectrum efficient, ubiquitous, always-on and interoperable multi-vendor mobile broadband wireless access networks. It will provide an efficient packet based air interface optimized for IP. The standard will address end user markets that include access to Internet, intranet, and enterprise applications by mobile users as well as access to infotainment services.

14. Intellectual Property:

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

Sponsor is aware of copyrights relevant to this project? Yes

Sponsor is aware of trademarks relevant to this project? Yes

Sponsor is aware of possible registration of objects or numbers due to this project? Yes

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

ITU-R Working Party 8F is developing air interfaces for IMT-2000 for both mobile and fixed applications, and receives input from various external standards development organizations. 3GPP and 3GPP2 are partnership projects that develop the specifications among these organizations for evolving mobile data air-interface specifications. Their work targets an evolution of existing voice and circuit-switched architectures (in the case of 3GPP based on GSM and in the case of 3GPP2 based on IS-41), as compared to the MBWA project, which focuses on an air-interface optimized for IP data for a cost-effective, packet-switched mobile broadband wireless data solution. T1P1.4 has a project on WWINA which addresses standards related to the radio and network aspects of systems optimized for internet data applications in low mobility environments (with handoff). The individual user data rates specified by this group range from 8 Kb/s to 2 Mb/s.

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?:**

Yes

If yes, please answer the following questions:

Which International Organization/Committee? ITU-R WP8F

International Contact Stephen Blust

Information? +14042365924

stephen.blust@cingular.com

17. Will this project focus on Health, Safety or Environmental Issues? No**18. Additional Explanatory Notes: (Item Number and Explanation)**

Item #12 - As stated in item 12, the standard to be developed "targets spectral efficiencies, sustained user data rates and numbers of active users, which are all significantly higher than those achieved by existing mobile communications systems". The table below provides additional information on air interface characteristics and performance targets that are expected to be achieved.

Characteristic	Target Value
Mobility	Vehicular mobility classes up to 250 km/hr (as defined in ITU-R M.1034-1)
Sustained spectral efficiency	> 1 b/s/Hz/cell
Peak user data rate (Downlink (DL))	> 1 Mbps*
Peak user data rate (Uplink (UL))	> 300 Kbps*
Peak aggregate data rate per cell (DL)	> 4 Mbps*
Peak aggregate data rate per cell (UL)	> 800 Kbps*
Airlink MAC frame RTT	<10 ms
Bandwidth	e.g., 1.25 MHz, 5 MHz
Cell Sizes	Appropriate for ubiquitous metropolitan area networks and capable of reusing existing infrastructure.
Spectrum (Maximum operating frequency)	< 3.5 GHz
Spectrum (Frequency Arrangements)	Supports FDD (Frequency Division Duplexing) and TDD (Time Division Duplexing) frequency arrangements
Spectrum Allocations	Licensed spectrum allocated to the Mobile Service
Security Support	AES (Advanced Encryption Standard)

* Targets for 1.25 MHz channel bandwidth. This represents 2 x 1.25 Mhz paired) channels for FDD and a 2.5 MHz (unpaired) channel for TDD. For other bandwidths, the data rates may change.