

## IEEE 802.16 Working Group on Broadband Wireless Access

<http://WirelessMAN.org>



Dr. Roger B. Marks  
NextWave Broadband, Inc.  
4040 Montview Blvd.  
Denver, CO 80207 USA  
<mailto:r.b.marks@ieee.org>  
16 July 2006

Dear IEEE-SA RevCom:

This submittal is an application for approval of IEEE P802.16-Conformance04/D7 (“Draft Standard for Conformance to IEEE 802.16 - Part 4: Protocol Implementation Conformance Statement (PICS) Proforma for Frequencies below 11 GHz”).

The single 15-day recirculation closed on 13 April. The final ballot report shows two remaining Disapprove votes, and I have reported that in my submittal form. However, as noted on the following page, both of those voters have informed me that they wish to be considered as voting Approve.

Attached to this letter, please find the following:

Page 2-3: Statements of conversion of Disapprove to Approve votes

Page 4-6: IEEE-SA Standards Board Form for Submittal of Proposed Standards

Page 7: Signature Page

Page 8-10: PAR

Sincerely,

Roger B. Marks  
Chair, IEEE 802.16 Working Group on Broadband Wireless Access

2005-07-16

IEEE 802.16-06/038

## Vote change documentation

(1)

From: Sean Cai  
Subject: Re: \*\*\*\* IEEE P802.16/Conformance04-1 Sponsor Ballot Recirc  
Date: April 29, 2006 09:08:36 AM PDT

Roger,

I was on vacation. Sorry, I missed your reminder email. However, I sent you email after last meeting to indicate that I was satisfied with the resolution and would like to change my vote to "Approve".

Regards,

Sean Cai  
ZTE San Diego, Inc.  
10105 Pacific Heights Blvd.  
Suite 250  
San Diego, CA 92121

2005-07-16

IEEE 802.16-06/038

(2)

From: Rainer Ullmann  
Subject: Re: Comment #07 on services in the 802.16c-Conformance04 st  
Date: May 3, 2006 06:19:37 AM PDT  
To: Herbert Ruck

Dear Herbert,

I apologize that I wasn't able to participate in the recent recirculation process due to business travel and personal absence.

I also had an off site meeting yesterday because of which I missed both your phone calls. Anyhow, you recalled our conversation in Denver absolutely correct - but here it is in writing:

My preferred solution for #7 is:

Section p.24, line 17 (section A.5.2.3.2.4 Uplink scheduling services, Table A.28 )

Below the table add sentence:

At least one of the above scheduling services must be supported.

Section p.44, line 17, (section A.5.3.3.2.4 Uplink scheduling services, Table A.72)

Below the table add sentence:

At least one of the above scheduling services must be supported

The above line numbers, etc refer to IEEE P802.16/Conformance04/D7.

NOTE:

**I am not sure whether this is possible at this point but I would like to officially change my vote from "Disapprove" to "Approve", with comment #7 remaining as "Editorial" only.** This reflects that the changes that were already implemented in D7 (i.e all service types optional) were satisfying even if not absolutely complete w.r.t. to our discussion about this issue. I hope this resolves your problem in bringing this project to a closing. If not please feel free to contact me again to instruct me how to do so. I will not be attending the Tel Aviv meeting and therefore would like to thank you at this point for doing this thorough job - Good work !

Best regards,

Rainer

Rainer Ullmann, Ph.D  
Product Line Manager  
Wavesat Inc.

**IEEE-SA STANDARDS BOARD  
FORM FOR SUBMITTAL OF PROPOSED STANDARDS**

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**1. PROJECT NUMBER:** P802.16-Conformance04

**2. DATE:** 2006-07-16

**3. TITLE:** Standard for Conformance to IEEE 802.16 - Part 4: Protocol Implementation Conformance Statement (PICS) Proforma for Frequencies below 11 GHz

**4. SPONSOR** (Full name of society/committee): Computer Society/LMSC + Microwave Theory & Techniques Society

**5. BALLOTING COMMITTEE:** IEEE 802.16 Working Group + Microwave Theory and Techniques Society

**6. NAME OF WORKING GROUP:** IEEE 802.16 Working Group on Broadband Wireless Access

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**7. NAME AND ADDRESS OF SUBMITTER**

Roger Marks  
NextWave Broadband, Inc.  
4040 Montview Blvd  
Denver, CO 80207  
United States

Telephone: 1 303 725 4626

Fax:

E-Mail: r.b.marks@ieee.org

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**8. DESCRIPTION OF DOCUMENT** (Check one from each column.)

New

Revision

Reaffirmation

Withdrawal

Standard

Recommended Practice

Guide

Amendment/Corrigenda to an existing  
standard (Indicate number and year) \_\_\_\_\_

Full Use (5-year life cycle)

Trial Use (2-year life cycle)

**8A. REAFFIRMATION ONLY:**

The Sponsor confirms that the balloting group agrees that this standard continues to be useful in its current form and contains no significant obsolete or erroneous information.

Yes

No

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**9. BALLOT INFORMATION**

List the interest categories of **eligible** balloters only. Refer to the IEEE-SA Standards Board Operations Manual and the Working Guide for Submittal of Proposed Standards for the rules of balloting committee classification.

Interest Category No.      Interest Category No.      Interest Category No.      Interest Category No.

**SUMMARY OF ELIGIBLE BALLOTS**

	INITIAL BALLOT		RECIRCULATION BALLOT (if applicable)	
	Draft D6 Number	Date Closed: 03/09/2006 Percentage	Draft D7 Number	Date Closed: 04/28/2006 Percentage
Eligible Balloters	<u>164</u>	<u>100%</u>	<u>164</u>	<u>100%</u>
Ballots Returned	<u>128</u>	<u>78</u>	<u>133</u>	<u>81</u>
Affirmatives	<u>113</u>	<u>96</u>	<u>121</u>	<u>98</u>
Total Negatives	<u>5</u>	<u>N/A</u>	<u>2</u>	<u>N/A</u>
Abstentions	<u>10</u>	<u>08</u>	<u>10</u>	<u>08</u>
Reasons for abstentions:	Lack of time = <u>    </u>		Lack of expertise = <u>    </u> Other = <u>    </u>	

**10. RESOLUTION OF COMMENTS AND NEGATIVE VOTES**

All balloting group members, observers, and coordinating groups have been advised of substantive changes made with respect to the balloted draft standard (in response to comments, in resolving negative votes, or for other reasons) and have received copies of all unresolved negative votes with reasons from the negative voter and the rebuttal, and have been advised that they have an opportunity to change their votes.

- A. Have unresolved comments accompanying negative votes been circulated? *Include unresolved negative comments and rebuttal.*       Yes     No     No unresolved comments
- B. Have substantive document changes been circulated?       Yes     No     No substantive changes

**11. COORDINATION ACTIVITY (Not required for reaffirmation)**

Using the abbreviations listed below, indicate the response received from each committee/organization required for coordination and include a copy of the response. Include documentation authorizing coordination by common membership, if applicable.

R = Received                      R/C = Received with comment                      NR = Not received

Committee/Organization	Response	Committee/Organization	Response
SCC10 (IEEE Dictionary)	NR		
SCC14 (Quantities, Units, & Letter Symbols)	NR		
IEEE Standards Editorial Staff	R		
IEEE Registration Authority Committee (RAC)	NR		

Indicate below any unresolved problems from coordination activities.

**12. PATENT/COPYRIGHT and REGISTRATION ISSUES**

- A. Any patent letters of assurance (LoAs) received by the Sponsor are to be forwarded to the PatCom Administrator [Fax: + 1 732 875 0524].
- B. Is there any copyrighted material in the proposed standard?  Yes  No  
If yes, include copyright release(s).
- C. Is the registration of objects and/or numbers a provision of the proposed standard? If yes, include a proposal for review by the IEEE-SA Registration Authority Committee (RAC).  Yes  No  Already approved by RAC

**13. INTERNATIONAL STANDARDS ACTIVITIES (Not required for reaffirmation)**

Is this document intended to be the basis of or included in an international standard?  Yes (Explain)  No

**14. UNIT OF MEASUREMENT (check one)**

- International System of Units (SI) - Metric  Inch/Pound  Both  Not measurement sensitive
- Other \_\_\_\_\_

**15. Source Materials Submitted to IEEE Standards Department**

- A. Have electronic versions of the source documents (text and figures) been provided?  Yes  No Format: \_\_\_\_\_
- B. Will a diskette or other online material be required to accompany the published standard?  Yes  No

**16. Submission checklist** (X = included in submittal package N/A = Not applicable)

	Submission Package Item	List URL if online
X	This submittal form	
N/A	Ballot summary form(s) (1 per ballot cycle)	See myBallot
N/A	Copies of unresolved negatives & rebuttals	
X	PAR and PAR approval letter	
N/A	Coordination comments and responses	
X	.pdf of final balloted draft #D7	
N/A	Permissions & copyright releases	

PROJECT NUMBER: P802.16-Conformance04/D7

DATE: 16 July 2006

*This draft standard has been developed in accordance with the policies and procedures of the Sponsor and I am authorized by those policies and procedures to make this submittal.*

[Roger B. Marks]

Chair, IEEE 802.16 Working Group

Signature of Submitter

Title (role in Sponsor)

=====

**FOR STANDARDS DEPARTMENT USE ONLY**

\_\_\_\_\_  
Signature of IEEE-SA Officer

IEEE-SA Standards Board Chair

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**Return to:**

IEEE Standards Department  
RevCom Secretary  
445 Hoes Lane  
PO Box 1331  
Piscataway, NJ 08855-1331

[Email This Letter](#)

29 March 2004

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

Re: P802.16/Conformance04 - Standard for Conformance to IEEE 802.16 - Part 4: Protocol Implementation  
Conformance Statement (PICS) Proforma for Frequencies below 11 GHz.

Dear Paul:

I am pleased to inform you that on 25 March 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/802-16\\_Conformance04](http://standards.ieee.org/board/nes/projects/802-16_Conformance04).

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 23 June 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,

Jodi Haasz  
Program Manager  
International Stds Programs and Governance  
Standards Activities  
Phone +1 732 562 6367  
FAX +1 208 460 5300  
Email: [j.haasz@ieee.org](mailto:j.haasz@ieee.org)

cc: [r.b.marks@ieee.org](mailto:r.b.marks@ieee.org)



# PAR FORM

**PAR Status:** New PAR

**PAR Approval Date:** 2004-03-25

**PAR Signature Page on File:** Yes

**1. Assigned Project Number:** 802.16/Conformance04

**2. Sponsor Date of Request:** 2003-11-24

**3. Type of Document:** Standard for

**4. Title of Document:**

**Draft:** Standard for Conformance to IEEE 802.16 - Part 4: Protocol Implementation Conformance Statement (PICS)  
Proforma for Frequencies below 11 GHz.

**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 802.16 Working Group on Broadband Wireless Access

**Approximate Number of Expected Working Group Members:**100

**8. Contact information for Working Group Chair:**

**Name of Working Group Chair:** Roger B Marks

**Telephone:** 303-497-3037 **FAX:** 303-497-7828

**Email:** r.b.marks@ieee.org

**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:** Microwave Theory and Techniques Society

**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:** 2004-07-23

**12. Fill in Projected Completion Date for Submittal to RevCom:** 2004-11-25

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

**13. Scope of Proposed Project:**

This standard represents the Protocol Implementation Conformance Statement (PICS) Proforma, per ISO/IEC Standard 9646-7 (1995) and ITU-T X.296, for conformance specification of base stations and subscriber stations based upon the air interface specified in IEEE P802.16-REVd for frequencies below 11 GHz.

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

The standard will relate to conformance to the 2004 revision of IEEE Std 802.16. Work under the PAR can progress based on the draft but cannot be completed until the revision is complete. However, the draft revision (P802.16-REVd) is currently in Sponsor Ballot, and completion is expected soon.

**14. Purpose of Proposed Project:**

This document describes the capabilities and options within the air interface specified for frequencies below 11 GHz in IEEE P802.16-REVd. It is to be completed by the supplier of a product claiming to implement the protocol. It indicates which capabilities and options have been implemented. It allows a user of the product to evaluate its conformance and to determine whether the product meets the user's requirements.

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

**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?** Yes

**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?** No

**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)**

The standard may include access to an electronic form that will produce data transferable to another party. The standard will include permission to print completed hard copies of the form for documentation purposes.