

IEEE 802.16 Working Group on Broadband Wireless Access



<http://WirelessMAN.org>

Dr. Roger B. Marks, Chair
325 Broadway, MC 813.00
Boulder, CO 80305 USA
Tel: +1 303 497 3037
<mailto:r.b.marks@ieee.org>
19 March 2004

Dear IEEE-SA RevCom:

This submittal is an application for approval of P802.16/Conformance03/D3 (“Draft Standard for Conformance to IEEE Standard 802.16 Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC Air Interface”).

Attached to this letter, please find the following:

Page 2-5: IEEE-SA Standards Board Form for Submittal of Proposed Standards
Page 6-10: Summary of initial ballot results (39 affirmative, 0 negative, 1 abstain)
Page 11: Recirculation ballot cover letter
Page 12-16: Summary of recirculation ballot results (40 affirmative, 0 negative, 1 abstain, no comments)
Page 17-18: PAR
Page 19: PAR Approval Letter
Page 20: PAR Renumbering Letter

The draft itself (P802.16/Conformance03/D3) will be included separately in PDF format. It has been supplied to the IEEE Staff Project Editor in FrameMaker format.

Please feel free to contact me with any questions or concerns.

Sincerely,

Roger B. Marks

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

1. PROJECT NUMBER: P802.16/Conformance03/D3

2. DATE: 1 Mar 2004

3. TITLE: Draft Standard for Conformance to IEEE Standard 802.16 Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC Air Interface

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

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

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

7. NAME AND ADDRESS OF SUBMITTER

Roger B. Marks
NIST
325 Broadway, MC 813.00
Boulder, CO 80305
USA

Telephone: +1 303 497 3037

Fax: +1 303 497 7828

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

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

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.

User	8	Producer	12	General Interest	17	Government	3
Interest Category	No.	Interest Category	No.	Interest Category	No.	Interest Category	No.

SUMMARY OF ELIGIBLE BALLOTS

	INITIAL BALLOT		RECIRCULATION BALLOT (if applicable)	
	Draft D2 Number	Date Closed: 2003-12-19 Percentage	Draft D3 Number	Date Closed: 2004-02-29 Percentage
Ballots Mailed	49	100%	49	100%
Ballots Returned	40	81	41	83
Affirmatives	39	100	40	100
Negatives	00	N/A	00	N/A
Abstentions	01	02	01	02
Reasons for abstentions:	Lack of time = 1		Lack of expertise = 0	
			Other = 0	

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)	R		
SCC14 (Quantities, Units, & Letter Symbols)	NR		
IEEE Standards Editorial Staff	R		

Indicate below any unresolved problems from coordination activities.

None. No comments.

12. PATENT/COPYRIGHT and REGISTRATION ISSUES

- A. Is there any patented material in the proposed standard? Yes No Originally indicated on the PAR, but not included in the final document
If yes, include letters(s) of assurance from the patent holder.
- 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: FrameMaker
- 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	http://iee802.org/16/docs/04/80216-04_08.pdf
X	Ballot summary form(s) (1 per ballot cycle)	http://iee802.org/16/docs/04/80216-04_08.pdf
N/A	Copies of unresolved negatives & rebuttals	
X	PAR and PAR approval letter	http://iee802.org/16/docs/04/80216-04_08.pdf
N/A	Coordination comments and responses	
X	.pdf of final balloted draft #D3	http://iee802.org/16/private/drafts/tgc/P80216_Conf03_D3.zip
N/A	Permissions & copyright releases	
N/A	Delegation of balloting authority	

PROJECT NUMBER: P802.16/Conformance03

DATE: 19 March 2004

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.

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

Ballot Summary

P802.16/Conformance03

Closing date: 2003-12-19

1. This ballot has met the 75% returned ballot requirement.

49 eligible people in this ballot group.

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39 affirmative votes
 0 negative votes with comments
 0 negative votes without comments
 1 abstention votes
=====
40 votes received = 81% returned
                   2% abstention

```

2. The 75% affirmation requirement is being met.

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39 affirmative votes
 0 negative votes with comments
=====
39 votes = 100% affirmative

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Ballot Details**Coordination Responses Only**

IEEE/Coord Number	Name	Role	Phone / E-mail	Coordination Ballot Received	Coordination Comment(s) Received
	Bruce Barrow	SCC14		-	-
	Editorial Coordinator	Editorial		-	-
	SCC10 Coordinator	SCC10		yes	-

Balloters

Number	Name	Phone / E-mail	Vote	T	E	Graphics	Status Notes	Interest Category
	John Barnett		Approve, no comments (Y)	-	-	-		User
	Harry Bims		Approve, comments (Y1)	-	1	1		Producer
	Mitchell Buchman		-	-	-	-		Government
	Naftali Chayat		Approve, no comments (Y)	-	-	-		Producer
	Aik Chindapol		Approve, no comments (Y)	-	-	-		General Interest
	Todor Cooklev		Approve, no comments (Y)	-	-	-		Government

	Dr. Guru Dutt Dhingra		Approve, no comments (Y)	-	-	-		User
	Thomas Dineen		Approve, comments (Y1)	-	-	-	Approve, comments without comment	Producer
	Dr. Sourav Dutta		Approve, no comments (Y)	-	-	-		General Interest
	Avraham Freedman		Approve, comments (Y1)	-	1	-		General Interest
	Theodore Georgantas		Approve, no comments (Y)	-	-	-		Producer
	Andrew Germano		Approve, no comments (Y)	-	-	-		General Interest
	Qiang Guo		-	-	-	-		General Interest
	Raj Jain		Approve, no comments (Y)	-	-	-		User
	David James		-	-	-	-		User
	EFTHYMIOS KARABETSOS		Approve, no comments (Y)	-	-	-		Government
	Stuart Kerry		Approve, no comments (Y)	-	-	-		General Interest
	Brian Kiernan		Approve, no comments (Y)	-	-	-		General Interest

	Pi-Cheng Law		-	-	-		User
	Yeou-Song Lee		-	-	-		User
	Christina Lim		Approve, comments (Y1)	-	1	1	General Interest
	Randolph Little		Approve, no comments (Y)	-	-	-	General Interest
	Gregory Luri		Approve, no comments (Y)	-	-	-	User
	Roger Marks		Approve, comments (Y1)	-	1	-	Government
	Kevin Marquess		Approve, comments (Y1)	-	2	-	User
	Russell McKown		Approve, no comments (Y)	-	-	-	Producer
	Ingolf Meier		Approve, no comments (Y)	-	-	-	Producer
	George Miao		Approve, no comments (Y)	-	-	-	General Interest
	Yinghua Min		Approve, no comments (Y)	-	-	-	General Interest
	Charles Ngethe		Approve, no comments (Y)	-	-	-	User

	Roger Pandanda		Approve, no comments (Y)	-	-	-	General Interest
	Ashley Peacock		-	-	-	-	General Interest
	Subbu Ponnuswamy		Approve, no comments (Y)	-	-	-	General Interest
	Vikram Punj		Approve, no comments (Y)	-	-	-	Producer
	Eugene Robinson		Approve, no comments (Y)	-	-	-	General Interest
	Osman Sakr		-	-	-	-	General Interest
	Gil Shultz		-	-	-	-	User
	Yoram Solomon		Approve, no comments (Y)	-	-	-	Producer
	Kenneth Stanwood		Approve, comments (Y1)	1	-	1	Producer
	Carl Stevenson		Approve, no comments (Y)	-	-	-	Producer
	Scott Valcourt		-	-	-	-	General Interest
	Stanley Wang		Approve, no comments (Y)	-	-	-	Producer

	Hung-yu Wei		Approve, no comments (Y)	-	-	-		General Interest
	Menzo Wentink		Approve, no comments (Y)	-	-	-		General Interest
	Oren Yuen		Approve, no comments (Y)	-	-	-		User
	SURONG ZENG		Approve, no comments (Y)	-	-	-		General Interest
	zion hadad		Approve, no comments (Y)	-	-	-		Producer
	kevin karcz		Abstain for lack of time (A1)	-	-	-		General Interest
	michael newman		Approve, no comments (Y)	-	-	-		User
Comment Totals *				1	6	3		
(* You have at least these many comments: each unstructured binary file (i.e., Word) is counted as a single G file, which may consist of one or hundreds of individual T and E comments.								

Summary of Eligible Voters by Interest Category

Interest Category	Affirmative(s)	Negative(s) with Comments	Negative(s) without Comments	Abstention(s)	Not Returned	Total
User	8	0	0	0	4	12
Producer	12	0	0	0	0	12
General Interest	16	0	0	1	4	21
Government	3	0	0	0	1	4
Voting Tally	39	0	0	1	9	49

Abstention details:	1 for lack of time (A1)	0 for lack of expertise (A2)	0 for other reasons (A3)
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IEEE 802.16 Working Group on Broadband Wireless Access

<http://WirelessMAN.org>



Dr. Roger B. Marks
325 Broadway, MC 813.00
Boulder, CO 80305 USA
Tel: +1 303 497 3037
<mailto:r.b.marks@ieee.org>
11 February 2004

Dear P802.16/Conformance03 Balloting Group:

Thank you for your participation in the Sponsor Ballot for P802.16/Conformance03, which closed on 19 December 2003. The results are, in summary, 39 Approve, 0 Disapprove, 1 Abstain, and 9 Not Voting. By virtue of these numbers, the ballot is considered to have passed, pending recirculation of comments and changes.

We considered and responded to the 31 comments we received. Resolutions were approved by the IEEE 802.16 Working Group on Broadband Wireless Access, acting as the Ballot Resolution Committee.

We are requesting that the IEEE Balloting Center initiate a fifteen-day recirculation of the comment resolutions (see file **80216-03_59r3.pdf**) and of the resulting new draft P802.16/Conformance03/D3 (file **P80216_Conf03_D3.pdf**). We have included in the package all 31 comments, though none were cast by Disapprove voters since the approval vote was unanimous.

Please take this opportunity to review the package. You are not obligated to reply; if you do not, your current vote will stand. Based on the changes to the draft or on the Disapprove comments and responses, you may change your vote and/or submit additional comments. If you wish to re-vote or comment, please keep the deadline in mind. Instructions have been provided by the IEEE Balloting Center.

Sincerely,

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

Ballot Summary

P802.16/Conformance03 Recirculation

Closing date: 2004-02-29

This is a recirculation ballot. The report collates the results from the following groups: 0000639 0000733.

1. This ballot has met the 75% returned ballot requirement.

49 eligible people in this ballot group.

40 affirmative votes
 0 negative votes with comments
 0 negative votes without comments
 1 abstention votes

=====

41 votes received = 83% returned
 2% abstention

2. The 75% affirmation requirement is being met.

40 affirmative votes
 0 negative votes with comments

=====

40 votes = 100% affirmative

Ballot Details**Coordination Responses Only**

IEEE/Coord Number	Name	Role	Phone / E-mail	Coordination Ballot Received	Coordination Comment(s) Received
	Bruce Barrow	SCC14		-	-
	Editorial Coordinator	Editorial		yes*	-
	SCC10 Coordinator	SCC10		yes*	-

Balloters

Number	Name	Phone / E-mail	Vote	T	E	Graphics	Status Notes	Interest Category
	John Barnett		Approve, no comments (Y)	-	-	-		User
	Harry Bims		Approve, comments (Y1)	-	1	1		Producer
	Mitchell Buchman		-	-	-	-		Government
	Naftali Chayat		Approve, no comments (Y)	-	-	-		Producer
	Aik Chindapol		Approve, no comments (Y)	-	-	-		General Interest
	Todor Cooklev		Approve, no comments (Y)*	-	-	-		Government

	Dr. Guru Dutt Dhingra		Approve, no comments (Y)*	-	-	-	User
	Thomas Dineen		Approve, comments (Y1)	-	-	-	Approve, comments without comment Producer
	Dr. Sourav Dutta		Approve, no comments (Y)	-	-	-	General Interest
	Avraham Freedman		Approve, comments (Y1)	-	1	-	General Interest
	Theodore Georgantas		Approve, no comments (Y)*	-	-	-	Producer
	Andrew Germano		Approve, no comments (Y)	-	-	-	General Interest
	Qiang Guo		-	-	-	-	General Interest
	Raj Jain		Approve, no comments (Y)*	-	-	-	User
	David James		-	-	-	-	User
	EFTHYMOS KARABETSOS		Approve, no comments (Y)	-	-	-	Government
	Stuart Kerry		Approve, no comments (Y)*	-	-	-	General Interest

	Brian Kiernan		Approve, no comments (Y)	-	-	-		General Interest
	Pi-Cheng Law		-	-	-			User
	Yeou-Song Lee		-	-	-			User
	Christina Lim		Approve, comments (Y1)	-	1	1		General Interest
	Randolph Little		Approve, no comments (Y)	-	-	-		General Interest
	Gregory Luri		Approve, no comments (Y)	-	-	-		User
	Roger Marks		Approve, comments (Y1)	-	1	-		Government
	Kevin Marquess		Approve, comments (Y1)	-	2	-		User
	Russell McKown		Approve, no comments (Y)	-	-	-		Producer
	Ingolf Meier		Approve, no comments (Y)*	-	-	-		Producer
	George Miao		Approve, no comments (Y)	-	-	-		General Interest
	Yinghua Min		Approve, no comments (Y)	-	-	-		General Interest
	Charles Ngethe		Approve, no comments (Y)	-	-	-		User

	Roger Pandanda		Approve, no comments (Y)	-	-	-	General Interest
	Ashley Peacock		-	-	-	-	General Interest
	Subbu Ponnuswamy		Approve, no comments (Y)	-	-	-	General Interest
	Vikram Punj		Approve, no comments (Y)*	-	-	-	Producer
	Eugene Robinson		Approve, no comments (Y)	-	-	-	General Interest
	Osman Sakr		-	-	-	-	General Interest
	Gil Shultz		-	-	-	-	User
	Yoram Solomon		Approve, no comments (Y)	-	-	-	Producer
	Kenneth Stanwood		Approve, comments (Y1)	1	-	1	Producer
	Carl Stevenson		Approve, no comments (Y)	-	-	-	Producer
	Scott Valcourt		Approve, no comments (Y)*	-	-	-	General Interest
	Stanley Wang		Approve, no comments (Y)	-	-	-	Producer

	Hung-yu Wei		Approve, no comments (Y)*	-	-	-	General Interest
	Menzo Wentink		Approve, no comments (Y)	-	-	-	General Interest
	Oren Yuen		Approve, no comments (Y)	-	-	-	User
	SURONG ZENG		Approve, no comments (Y)	-	-	-	General Interest
	zion hadad		Approve, no comments (Y)	-	-	-	Producer
	kevin karcz		Abstain for lack of time (A1)	-	-	-	General Interest
	michael newman		Approve, no comments (Y)	-	-	-	User
Comment Totals *				1	6	3	
<p>(*) You have at least these many comments: each unstructured binary file (i.e., Word) is counted as a single G file, which may consist of one or hundreds of individual T and E comments.</p> <p>* This ballot cast this ballot in the current circulation of this recirc ballot.</p>							

Summary of Eligible Voters by Interest Category

Interest Category	Affirmative(s)	Negative(s) with Comments	Negative(s) without Comments	Abstention(s)	Not Returned	Total
User	8	0	0	0	4	12
Producer	12	0	0	0	0	12
General Interest	17	0	0	1	3	21
Government	3	0	0	0	1	4
Voting Tally	40	0	0	1	8	49

Abstention details:	1 for lack of time (A1)	0 for lack of expertise (A2)	0 for other reasons (A3)
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PAR FORM

PAR Status: New PAR
PAR Approval Date: 2003-03-20
PAR Signature Page on File: No
Review of Standards Development Process: No

1. Assigned Project Number: 1802.16.3

2. Sponsor Date of Request: 2003-02-07

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for Conformance to IEEE Standard 802.16 - Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC™
Air Interface

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 802.16 Working Group on Broadband Wireless Access

Name of Working Group Chair: Roger B Marks

Telephone: 303-497-3037 **FAX:** 509-756-2642

Email: r.b.marks@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: 2003-08-05

11. Fill in Projected Completion Date for Submittal to RevCom: 2004-02-05

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 standard represents the Radio Conformance Test (RCT) specification for base stations and subscriber stations based upon the WirelessMAN-SC (TM) (10-66 GHz) air interface specified in IEEE Standard 802.16.

13. Purpose of Proposed Project:

These radio conformance test specifications form the basis of conformance and interoperability testing at the radio interface.

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? No

15. Are you aware of other standards or projects with a similar scope? No

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)

[Email This Letter](#)

24 March 2003

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

Re: P1802.16.3 - Standard for Conformance to IEEE Standard 802.16 - Part 3: Radio Conformance Tests (RCT)
for 10-66 GHz WirelessMAN-SC™ Air Interface

Dear Paul:

I am pleased to inform you that on 20 March 2003 the IEEE-SA Standards Board approved the above referenced project until 31 December 2007. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1802-16-3.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 5.1.2f 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 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
Standards Activities
Phone +1 732 562 6367
FAX +1 208 460 5300
Email: j.haasz@ieee.org

Jodi Haasz

06/17/2003 03:46 PM

To: p.nikolich@ieee.org
cc: r.b.marks@ieee.org
Subject: P1802.16.1, P1802.16.2 and P1802.16.3

17 June 2003

Paul Nikolich
18 Bishops Lane
Lynnfield, MA 01940

Dear Paul:

On 12 June 2003, the IEEE-SA Standards Board approved a change in project number for the above-referenced projects. The new project numbers are shown below:

P802.16/Conformance01-200x (was P1802.16.1) (C/LM) Standard for Conformance to IEEE Standard 802.16
- Part 1: Protocol Implementation Conformance Statement (PICS) Proforma for 10-66 GHz WirelessMAN-SC Air Interface

P802.16/Conformance02-200x (was P1802.16.2) (C/LM) 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

P802.16/Conformance03-200x (was P1802.16.3) (C/LM) Standard for Conformance to IEEE Standard 802.16
- Part 3: Radio Conformance Tests (RCT) for 10-66 GHz WirelessMAN-SC(TM) Air Interface

If you should have any questions regarding this action, please feel free to contact me.

Best regards,

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