Abstentions

IEEE-SA STANDARDS BOARD FORM FOR SUBMITTAL OF PROPOSED STANDARDS

1. PROJECT NUMBI	ER: P1802.16.	1		2	. DATE: 25	5 Apr 2003		
3. TITLE: Draft Standment (PICS) Proforma					Part 1: Proto	col Impleme	entation Conformanc	e State-
4. SPONSOR (Full na	me of society/co	ommittee): (Computer So	ociety/LMS	C + Microw	ave Theory	& Techniques Socie	ty
5. BALLOTING COM	MITTEE: 80	2.16 Workir	ng Group + N	Microwave	Theory and	Techniques	Society	
(Include written deleg	gation of balloti	ng authority	·.)					
6. NAME OF WORK	ING GROUP:	802.16 Wor	rking Group	on Broadb	and Wireless	s Access		
7. NAME AND ADDI	RESS OF SUB	MITTER						
Roger B. Marks NIST 325 Broadway, MC Boulder, CO 8030: USA								
Telephone: +1 303	497 3037	Fax: +	-1 509 756 2	2642	E-Mail:	r.b.marks@	ieee.org	
8. DESCRIPTION O	F DOCUMEN'	Γ (Check on	e from each	column.)				
X New ☐ Revision ☐ Reaffirmation ☐ Withdrawal 8A. REAFFIRMATIO	ON ONLY:	☐ Gui ☐ Am star The cont	commended ide endment/Co ndard (Indica Sponsor con	orrigenda to ate number afirms that t aseful in its	☐ Tri an existing and year) he balloting current form	al Use (2-ye	ear life cycle) ear life cycle) es that this standard ens no significant	
			Yes		nation.			
9. BALLOT INFORM List the interest cate Working Guide for S	gories of eligib							l the
User 1		ducer	14		al Interest	23	Government	3
Interest Category N	Io. Inte	rest Categor	•		st Category	No.	Interest Category	No.
		SUMMA	ARY OF EL	IGIBLE B	ALLOTS			
Ballots Mailed	Draft D2 Number 53	NITIAL BAI Date Close Percentage 100%	ed: 2003-02	-25	RECIRCU Draft D3 Number 53		ALLOT (if applicabl Closed: 2003-04-24 ntage	e)
Ballots Returned	42	79			46	86		
Affirmatives	41	100			45	100		
Negatives	0	N/A			0	N/A		
SPID 78610571.29608		1	IEEE-SA Sta	ndards Boo	ard Appro	ved Revision	n 7 December 2000	

Reasons for abstentions: Lack of time = $\underline{1}$ Lack of expertise = $\underline{0}$ Other = $\underline{0}$

All ball respect have rea	LUTION OF COMMENTS AND NEGATIVE V loting group members, observers, and coordinatin to the balloted draft standard (in response to conceived copies of all unresolved negative votes with that they have an opportunity to change their vote	g groups nments, reasons	in resolving	negative	votes, or	for other reason	s) and
	Have unresolved negative votes been circulated?		□ Yes	\square No	X No	unresolved votes	
	Include unresolved negative comments and rebutta						
B. 1	Have substantive document changes been circulate	d?	X Yes	□No	□ No	substantive chan	ges
Using the		received f cumentat	rom each co ion authorizi	ing coordi	nation by	common member	ership,
	R = Received $R/C = Received v$				Not rece		
		esponse	Committee	e/Organiz	ation	Response	
SCC	C10 (IEEE Dictionary) R C14 (Quantities, Units, & Letter Symbols) R EE Standards Editorial Staff R						
	ow any unresolved problems from coordination act in Editorial and SCC 10 review was completed for		6.1_D2. Thi	is docume	ent meets	all requirements	of co-
12. PATEN	T/COPYRIGHT and REGISTRATION ISSUE	<u>S</u>					
A. Is there If yes, B. Is there	e any patented material in the proposed standard? include letters(s) of assurance from the patent hold any copyrighted material in the proposed standard include copyright release(s).	□ Y ler.				cated on the PAR n the final docum	
C. Is the return the pro	egistration of objects and/or numbers a provision of posed standard? If yes, include a proposal for review IEEE-SA Registration Authority Committee (RAC)	ew	es XINo	□ Alrea	ady appro	ved by RAC	
	NATIONAL STANDARDS ACTIVITIES (Not a product intended to be the basis of or included in a	-			Yes (Exp	olain) 🛚 🛚 🛣 No	
	•	ound 🗆	Both □ No	t measure	ment sens	sitive	
A. Have been B. Will a	Materials Submitted to IEEE Standards Depart electronic versions of the source documents (text provided? a diskette or other online material be required to accommodate to the source documents of the	and figure				nat: <u>FrameMaker</u>	
publi	shed standard?						
16. Submiss	sion checklist $(X = included in submittal packs)$		J/A = Not ap			_	-
	Submission Package Item	Li	ist URL if o	nline			
X	This submittal form						
X	Ballot summary form(s) (1 per ballot cycle)						
N/A	Copies of unresolved negatives & rebuttals						
X	PAR and PAR approval letter						
N/A	Coordination comments and responses						

X

X

N/A

.pdf of final balloted draft #D3

Permissions & copyright releases

Delegation of balloting authority

Ballot Summary

P1802.16.1

Closing date: 2003-02-25

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

```
53 eligible people in this ballot group.
```

- 41 affirmative votes
- O negative votes with comments
- O negative votes without comments
- 1 abstention votes

=====

42 votes received = 79% returned 2% abstention

2. The 75% affirmation requirement is being met.

```
41 affirmative votes
0 negative votes with comments
```

=====

41 votes = 100% affirmative

Ballot Details

Coordination Responses Only

IEEE/Coord Number	Name	Role	Phone / E-mail	Coordination Ballot Received	Coordination Comment(s) Received
00601054	Bruce Barrow	SCC14		yes	-
00001000	Michelle Turner	SCC10		yes	yes
00001001	Michelle Turner	Editorial		yes	yes

Balloters

Number	Name	Phone / E -mail	Vote	Т	E	Graphics	Status Notes	Interest Categor
40189595	Selim Aissi Intel		Approve, no comments (Y)	-	-	-		User
40250497	Ralph Baddour University of Toronto		Abstain for lack of time (A1)	-	-	-		General Interest

40357619	John Barnett	-	_	-	-	User
08805236	Mitchell Buchman US Government	-	-	-	-	Governme
04503512	Ed Callaway Motorola	Approve, no comments (Y)	-	-	-	General Interest
41446421	Dean Chang Aperto Networks	Approve, no comments (Y)	-		-	Producer
40237493	Keith Chow	Approve, no comments (Y)	-	-	-	General Interest
03210820	Todor Cooklev San Francisco State University	Approve, no comments (Y)	-	-	-	Governme
06503270	Jose M. Costa Nortel Networks	Approve, no comments (Y)	-		-	General Interest
07633407	Steven Crowley	Approve, no comments (Y)	-	_	-	General Interest
40199311	Thomas Dineen Dineen Consulting	Approve, no comments (Y)	-	-	-	Producer

41385184	<u>Carl Eklund</u> Nokia	Approve, comments (Y1)	1	-	1	Producer
08518995	Avraham Freedman Hexagon System	Approve, no comments (Y)	-	-	-	General Interest
41348507	Theodore Georgantas Athena Semiconductors	Approve, no comments (Y)	-	-	-	Producer
41414896	Andrew Germano WiDeFi Corporation	-	-	-	-	Producer
07393143	Robert Grow Intel	Approve, no comments (Y)	-	-	-	General Interest
01150382	José A. Gutierrez Eaton Corporation	Approve, no comments (Y)	-	-		User
41335410	David Husson	Approve, no comments (Y)	-	-	-	Producer
01556620	Hamadi Jamali ITC Center	Approve, no comments (Y)	-	-	-	General Interest
03343704	Jacob Jorgensen Malibu Networks, Inc.	Approve, no comments (Y)	-	-	-	Producer
		<u> </u>				<u> </u>

40357068	STUART KERRY OK -Brit	-	_	-	-	General Interest
05995253	Brian Kiernan InterDigital Communications Corp.	Approve, no comments (Y)	-	-	-	General Interest
41304605	Pi-Cheng Law Chughwa Telecom Labs.	Approve, no comments (Y)	-	-	-	User
08108896	Yeou-Song Lee Anritsu	-	-	-		Producer
40255444	Christina Lim Photonics Research Laboratory	Approve, no comments (Y)	-	-	-	General Interest
01622778	Randolph Little AT&T - retired	Approve, no comments (Y)	-	-	-	General Interest
05845615	Gregory Luri CITY OF ST. CHARLES	Approve, no comments (Y)	-	-	-	User
08122103	Roger Marks NIST	Approve, comments (Y1)	-	1	1	Governme
40219720	Kevin Marquess Hyper Corporation	Approve, no comments (Y)	-	-		User

40183512	Kyle Maus AITG	-	-	-	-	User
40266634	Ingolf Meier	Approve, no comments (Y)	-	-		Producer
01271899	George Miao	Approve, no comments (Y)	-	-		General Interest
40223729	Apurva Mody Georgia Tech	Approve, no comments (Y)	-	-		General
41505402	Rajesh Moorkath State of Maryland	Approve, no comments (Y)	-	-	-	General Interest
07446628	Michael Newman CSI Telecommunications	Approve, no comments (Y)	-	-		User
07858459	Paul Nikolich	Approve, no comments (Y)	-	-		User
03350758	Chris Osterloh Itron	Approve, no comments (Y)	-	-		User
07022429	Roger Pandanda MCS Corporation	-	-	-		General Interest
40300305	Kenneth Peirce	Approve,	_ -	-	<u> </u>	Producer

	Malibu Networks	no comments (Y)				
00353235	Subbu Ponnuswamy	Approve, no comments (Y)	-	-	-	General Interest
01453273	Vikram Punj Meru Networks	Approve, no comments (Y)	-	-	-	General Interest
40283080	John Sargent Wireless Facilities Inc.	-	-	-	-	User
40156964	Neil Shipp Commsonic Ltd	-	-	-	-	General Interest
01109156	Gil Shultz	Approve, no comments (Y)	-	-		User
41392686	Kenneth Stanwood Ensemble Communications	Approve, comments (Y1)	-	1	1	Producer
40224483	Carl Stevenson Agere Systems	Approve, no comments (Y)	-	-	-	Producer
04389243	Mark Sturza 3C Systems Company	Approve, no comments (Y)	-	-		General Interest
40324312	Jun Tan	-	-	-	-	General

	Georgia Tech						Interest
A	OAN VIAPLANA AUNA ELECOMUNICACIONES		-	-	-	-	General Interest
41328136 L V	ei Wang Vi -LAN Inc.		Approve, comments (Y1)	1	-	1	Producer
41278416 H	Hung -yu Wei Columbia Univ.		Approve, no comments (Y)	-	-	-	General Interest
05907266	Oren Yuen		Approve, no comments (Y)	-	-	-	User
41249250 N	Vico van Waes Nokia		Approve, no comments (Y)	-	-	-	Producer
		Comme	nt Totals *	2	2	4	
	at least these many commen which may consist of one or			co	unt	ed as a	

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	10	0	0	0	3	13
Producer	12	0	0	0	2	14
General Interest	17	0	0	1	5	23
Government	2	0	0	0	1	3
Voting Tally	41	0	0	1	11	53

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

Ballot Summary

P1802.16.1/D3 Recirculation Closing date: 2003-04-24

This is a recirculation ballot. The report collates the results from the following groups: 0000426 0000508.

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

```
45 affirmative votes
0 negative votes with comments
0 negative votes without comments
1 abstention votes

=====
46 votes received = 86% returned
2% abstention
```

2. The 75% affirmation requirement is being met.

```
45 affirmative votes

0 negative votes with comments

=====

45 votes = 100% affirmative
```

Ballot Details

Coordination Responses Only

IEEE/Coord Number	Name	Role	Phone / E-mail	Coordination Ballot Received	Coordination Comment(s) Received
00601054	Bruce Barrow	SCC14		yes	-
00001000	Michelle Turner	SCC10		yes	yes
00001001	Michelle Turner	Editorial		yes	yes

Balloters

Number	Name	Phone / E -mail	Vote	Т	E	Graphics	Status Notes	Interest Categor
40189595	Selim Aissi Intel		Approve, no comments (Y)*	-	-	-		User
40250497	Ralph Baddour University of Toronto		Abstain for lack of time (A1)*	-	-	-		General Interest

 1 1	1	l I	11	1.1	11	11	1.1	l I
40357619	John Barnett		-	-	-	-		User
08805236	Mitchell Buchman US Government		-	-	-	-		Governme
04503512	Ed Callaway Motorola		Approve, no comments	-	-	-		General Interest
			(Y)					
41446421	Dean Chang Aperto Networks		Approve, no comments (Y)	-	-	_		Producer
40237493	Keith Chow		Approve, no comments (Y)*	-	-	-		General Interest
03210820	Todor Cooklev San Francisco State University		Approve, no comments (Y)	-	-	-		Governme
06503270	Jose M. Costa Nortel Networks		Approve, no comments (Y)	-	-	-		General Interest
07633407	Steven Crowley		Approve, no comments (Y)	-	-	-		General Interest
40199311	Thomas Dineen Dineen Consulting		Approve, no comments (Y)	-	_	-		Producer

	90036 USA					
41385184	Carl Eklund Nokia	Approve, comments (Y1)	1	-	1	Producer
08518995	Avraham Freedman Hexagon System Engineering Ltd.	Approve, no comments (Y)	-	-	-	General Interest
41348507	Theodore Georgantas Athena Semiconductors	Approve, no comments (Y)	-	-	-	Producer
41414896	Andrew Germano WiDeFi Corporation	Approve, no comments (Y)*	-	-	-	Producer
07393143	Robert Grow Intel	Approve, no comments (Y)	-	-	-	General Interest
01150382	José A. Gutierrez Eaton Corporation	Approve, no comments (Y)*	-	-	-	User
41335410	<u>David Husson</u>	Approve, no comments (Y)	-	-	-	Producer
01556620	Hamadi Jamali ITC Center	Approve, no comments (Y)	-	-	-	General Interest
03343704	Jacob Jorgensen Malibu Networks, Inc.	Approve, no comments (Y)	-	-	-	Producer

40357068	STUART KERRY OK -Brit	Approve, no comments (Y)*	-	-	-	General Interest
05995253	Brian Kiernan InterDigital Communications Corp.	Approve, no comments (Y)*	-	-	-	General Interest
41304605	Pi-Cheng Law Chughwa Telecom Labs.	Approve, no comments (Y)	-	-	-	User
08108896	Yeou-Song Lee Anritsu	-	-	-	-	Producer
40255444	Christina Lim Photonics Research Laboratory	Approve, no comments (Y)	-	-	-	General Interest
01622778	Randolph Little AT&T - retired	Approve, no comments (Y)	-	-	-	General Interest
05845615	Gregory Luri CITY OF ST. CHARLES	Approve, no comments (Y)	-	-	-	User
08122103	Roger Marks NIST	Approve, comments (Y1)	-	1	1	Governme
40219720	Kevin Marquess	Approve,	-		-	User

	Hyper Corporation	no comments (Y)				
40183512	Kyle Maus AITG	Approve, no comments (Y)*	-	-	-	User
40266634	Ingolf Meier	Approve, no comments (Y)*	-	-		Producer
01271899	George Miao	Approve, no comments (Y)	-	-	-	General Interest
40223729	Apurva Mody Georgia Tech	Approve, no comments (Y)	1	_	-	General Interest
41505402	Rajesh Moorkath State of Maryland	Approve, no comments (Y)*	-	-	-	General Interest
07446628	Michael Newman CSI Telecommunications	Approve, no comments (Y)	1	-	-	User
07858459	Paul Nikolich	Approve, no comments (Y)	-	-	-	User
03350758	Chris Osterloh Itron	Approve, no comments (Y)	-	-	-	User
07022429	Roger Pandanda MCS Corporation	-	-	-	-	General Interest

40300305	Kenneth Peirce Malibu Networks	Approve, no comments (Y)	-	_	-	Producer
00353235	Subbu Ponnuswamy	Approve, no comments (Y)	-	_	-	General Interest
01453273	Vikram Punj Meru Networks	Approve, no comments (Y)*	-		-	General Interest
40283080	John Sargent Wireless Facilities Inc.		-	1	-	User
40156964	Neil Shipp Commsonic Ltd	Approve, no comments (Y)*			-	General Interest
01109156	Gil Shultz	Approve, no comments (Y)*	-		-	User
41392686	Kenneth Stanwood Ensemble Communications	Approve, no comments (Y)*	-	1	1	Producer
40224483	Carl Stevenson Agere Systems	Approve, no comments (Y)*			-	Producer
04389243	Mark Sturza 3C Systems Company	Approve, no comments (Y)	-	-		General Interest

1 1	1	[
40324312	Jun Tan Georgia Tech		-		1	-	General Interest
03239332	JOAN VIAPLANA AUNA TELECOMUNICACIONES		-	-	+	-	General Interest
41328136	Lei Wang Wi-LAN Inc.		Approve, comments	1	-	1	Producer
41278416	Hung -yu Wei Columbia Univ.		Approve, no comments	-	-	-	General Interest
05907266	Oren Yuen		Approve,			-	User
			no comments (Y)				
41249250	<u>Nico van Waes</u> Nokia we		Approve, no comments (Y)	-	-	-	Producer
			ent Totals *	ш			
(*) You ha single G fi	ve at least these many commen le, which may consist of one of	nts: each unstructured binary file (i r hundreds of individual T and E co	i.e., Word) is omments.	co	uni	ed as a	
* This ball	oter cast this ballot in the curre	ent circulation of this recirc ballot.					

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	11	0	0	0	2 13
Producer	13	0	0	0	1 14
General Interest	19	0	0	1	3 23
Government	2	0	0	0	1 3

Voting Tally	45	0	0	1	7 53

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

08/14/02

PAR Status: New PAR

PAR Approval Date: 08/15/2002 PAR Signature Page on File: Yes

Review of Standards Development Process: No

Assigned Project Number: 1802.16.1
 Sponsor Date of Request: 07/12/2002
 Type of Document: Standard for

4. Title of Document:

Draft: Standard for Conformance to IEEE Standard 802.16 - Part 1: Protocol Implementation Conformance Statement (PICS) Proforma 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: The project is a new standard

7. Contact Information of Working Group:

Name of Working Group (WG): IEEE 802.16 Working Group on Broadband Wireless Access

Name of Working Group Chair: Roger B Marks

Telephone: (303) 497-3037 **FAX:** (303) 497-3122

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: 11/15/2002

11. Fill in Projected Completion Date for Submittal to RevCom: 5/2/2003

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 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 WirelessMAN-SC (10-66 GHz) air interface specified in IEEE Std 802.16.

13. Purpose of Proposed Project:

This document describes the capabilities and options within the WirelessMAN-SC (10-66 GHz) air interface specified in IEEE Std 802.16. 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 and what limitations might prevent interworking. It allows a customer of the product to evaluate its conformance and to determine whether the product meets the customer's requirements.

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 question:
Which International Organization/Committee?
International Contact Information:
17. Will this project focus on Health, Safety or Environmental Issues? $_{ m NO}$

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

MTT is also sponsoring this project. The standard will 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.

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

Re: P802.16.2a Local and Metropolitan Area Networks - Amendment to Recommended Practice for Coexistence of Fixed Broadband Wireless Access Systems

P1802.16.1 Standard for Conformance to IEEE Standard 802.16 - Part 1:
Protocol Implementation Conformance Statement (PICS)
Proforma
for 10-66 GHz WirelessMAN-SC Air Interface

Dear Paul:

I am pleased to inform you that on 15 August 2002 the IEEE-SA Standards Board approved the above referenced projects until December 2005 and December 2006, respectively. 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 November 2002.

At the bottom of this e-mail, please find URLs which you may find useful in the development of your proposed standard and in submitting your final draft for approval. We strongly recommend that a copy of your draft be sent to this office for review prior to the final voting by the working group to allow for a quick review by the editorial staff before sponsor balloting.

If you should have any further questions or would like to receive this information in paper, 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



May 1, 2003

Dr. Roger B. Marks

IEEE 802.16 Working Group on Broadband Wireless Access Standards

325 Broadway MC 813.00

Boulder, CO 80303

mailto: r.b.marks@ieee.org

Dear Dr. Marks:

On behalf of the WiMAX Forum, I hereby grant permission to the Institute of Electrical and Electronics Engineers, Inc., to modify, distribute, make derivative works of, and print material contained in draft document IEEE P1802.16.1-2003 based upon C1802.16.1-02/01 developed and hereby submitted by the WiMAX Forum.

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Margaret LaBrecque V

Worldwide Interoperability for Microwave Access Forum, Inc.

President

May 2, 2003