

IEEE 802.16 Working Group on Broadband Wireless Access<http://WirelessMAN.org>

Dr. Roger B. Marks
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Boulder, CO 80305 USA
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<mailto:r.b.marks@ieee.org>
22 October 2002

Dear IEEE-SA RevCom:

Enclosed is an application for approval of P802.16c ("Draft Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Detailed System Profiles for 10-66 GHz").

Attached to this letter, please find the following:

- Page 2-4: IEEE-SA Standards Board Form for Submittal of Proposed Standards
- Page 5-11: Summary of initial ballot (37 Approve, 1 Disapprove, 4 Abstain, 6 not voting)
- Page 12-18: Summary of recirculation ballot (40 Approve, 1 Disapprove, 4 Abstain, 3 not voting)
No new Disapproves and no comments received.
- Page 19: Unresolved negatives & responses (1 non-technical comment from the single Disapprove voter; recirculated along with response.)
- Page 20-24: PAR
- Page 25: PAR Approval Letter
- Page 26-28: Coordination comments & responses

Should you be interested, the following additional details are available by hyperlink:

- the recirculation cover letter <http://ieee802.org/16/docs/02/80216-02_42r3.pdf>.,
- the recirculated ballot comments <http://ieee802.org/16/docs/02/80216-02_42r3.pdf>.,
- document C802.16c-02/09 <http://ieee802.org/16/tgc/contrib/C80216c-02_09.pdf>, as referenced in the ballot recirculation package.
- document C802.16c-02/10 <http://ieee802.org/16/tgc/contrib/C80216c-02_10.pdf>, as referenced in the ballot recirculation package.

The draft itself (P802.16c/D4-2002) is included separately in PDF format.

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

Sincerely,

A handwritten signature in blue ink that reads "Roger B. Marks".

Roger B. Marks

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

1. PROJECT NUMBER: P802.16c

2. DATE: 22 Oct 2002

3. TITLE: Draft Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Detailed System Profiles for 10-66 GHz

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

(Include written delegation of balloting authority.)

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: +1 509 756 2642

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

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

- | | | |
|--|--|--|
| <input type="checkbox"/> New | <input type="checkbox"/> Standard | <input checked="" type="checkbox"/> Full Use (5-year life cycle) |
| <input type="checkbox"/> Revision | <input type="checkbox"/> Recommended Practice | <input type="checkbox"/> Trial Use (2-year life cycle) |
| <input type="checkbox"/> Reaffirmation | <input type="checkbox"/> Guide | |
| <input type="checkbox"/> Withdrawal | <input checked="" type="checkbox"/> Amendment/Corrigenda to an existing
standard (Indicate number and year) <u>IEEE 802.16-2001</u> | |

8A. REAFFIRMATION ONLY:

In the opinion of the balloting group, 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 12	Producer 11	General Interest 22	Government 3
Interest Category No.	Interest Category No.	Interest Category No.	Interest Category No.

SUMMARY OF ELIGIBLE BALLOTS

	<u>INITIAL BALLOT</u>		<u>RECIRCULATION BALLOT</u> (if applicable)	
	Draft <u>D3</u> Number	Date Closed: <u>2002-09-11</u> Percentage	Draft <u>D4</u> Number	Date Closed: <u>2002-10-19</u> Percentage
Ballots Mailed	<u>48</u>	<u>100%</u>	<u>48</u>	<u>100%</u>
Ballots Returned	<u>42</u>	<u>87</u>	<u>45</u>	<u>93</u>
Affirmatives	<u>37</u>	<u>97</u>	<u>40</u>	<u>97</u>
Negatives	<u>01</u>	<u>N/A</u>	<u>01</u>	<u>N/A</u>
Abstentions	<u>04</u>	<u>09</u>	<u>04</u>	<u>08</u>

SPID 62650721.20728
Reasons for abstentions:

IEEE-SA Standards Board Approved Revision 7 December 2000

Lack of time = 4 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 negative votes been circulated? Yes No No unresolved votes
Include unresolved negative comments and rebuttal.
- 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/C		
SCC14 (Quantities, Units, & Letter Symbols)	R		
IEEE Standards Editorial Staff	R/C		

Indicate below any unresolved problems from coordination activities.

None. Editorial comments were identified and addressed. SCC10 comment requested no changes.

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	
X	Ballot summary form(s) (1 per ballot cycle)	
X	Copies of unresolved negatives & rebuttals	
X	PAR and PAR approval letter	
X	Coordination comments and responses	
X	.pdf of final balloted draft #D5	
N/A	Permissions & copyright releases	
N/A	Delegation of balloting authority	

PROJECT NUMBER: P802.16c

DATE: 22 Oct 2002

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. pending final Sponsor approval



Chair, 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

P802.16c/D3

Closing date: 2002-09-11

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

48 eligible people in this ballot group.

37 affirmative votes

1 negative votes

4 abstention votes

=====

42 votes received = 87% returned
9% abstention**2. The 75% affirmation requirement is being met.**

37 affirmative votes

1 negative votes

=====

38 votes = 97% 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	301-493-4374 bbarrow@nist.gov	yes	-
00001000	Michelle Turner	SCC10	732-562-3825 m.d.turner@ieee.org	-	yes
00001001	Michelle Turner	Editorial	732-562-3825 m.d.turner@ieee.org	-	yes

Balloters

Number	Name	Phone / E-mail	Vote	T	E	Graphics	Status Notes	Interest Category
41371999	Gordon Antonello Wi-LAN Inc. 2891 Sunridge Way NE Calgary, Alberta T1Y 7K7 Canada	403 207-6477 gantonello@wi-lan.com	Approve, no comments (Y)	-	-	-		Producer
00095638	Gholamreza ("Reza") Arefi-Anbarani ("Arefi") ArrayComm, Inc. 2300 N Street NW, Suite 700 Washington,, District of Columbia 20037 USA	(202) 383-3346 reza@arraycomm.com	Approve, no comments (Y)	-	-	-		General Interest

41327250	Eladio Arvelo Mobilian Corporation 12707 High Bluff Drive. Suite 335 San Diego, California 92130 United States	(858) 436-2216 earvelo@mobilian.com	Abstain for lack of time (A1)	-	-	-		General Interest
06154470	Morris Balamut n/a 13 Matawan Green Lane Matawan, NJ 07747 US	732-566-3588 m.balamut@ieee.org	Approve, no comments (Y)	-	-	-		User
05587654	John Barr Motorola 1303 E. Algonquin Road Schaumburg, IL 60010 USA	(847) 576-8706 john.barr@motorola.com	Approve, no comments (Y)	-	-	-		General Interest
41446421	Dean Chang Aperto Networks 1637 S. Main Street Milpitas, CA 95035 USA	408 719-9977 dchang@apertonet.com	Approve, no comments (Y)	-	-	-		Producer
00812131	Naftali Chayat Alvarion HaBarzel 21a Tel Aviv 61131 Israel	+972-54-225549 naftali.chayat@alvarion.com	-	-	-			Producer
40252619	Elizabeth Chesnutt 326815 Georgia Tech Station Atlanta, GA 30332 USA	770 801-9249 eliz@ece.gatech.edu	Approve, no comments (Y)	-	-	-		General Interest
40237493	Keith Chow 28 Hawthorn Way Cambridge, Cams CB4 1AX UK	+44 (0)1223518538 chow.keith@computer.org	Approve, no comments (Y)	-	-	-		General Interest
03210820	Todor Cooklev Aware, Inc. 3685 Mt Diablo Blvd suite 395 Lafayette, CA 94549 USA	925-984-5283 tcooklev@ieee.org	Approve, no comments (Y)	-	-	-		General Interest
06503270	Jose M. Costa Nortel Networks P.O. Box C-3511 Ottawa, Ontario K1Y 4H7 Canada	+1 613 763-7574 costa@nortelnetworks.com	Approve, no comments (Y)	-	-	-		Producer
05046479	Prof.(Dr.) GURU DUTT	+91 253 461836	Approve, no	-	-	-		User

	DHINGRA Dhingra & Associates Opp. K. J. Mehta High School NASIK ROAD -422101, Maharashtra 422101 INDIA	dhingragd@sancharnet.in	comments (Y)					
41311588	Vern Dubendorf Lee County / ITG 17500 Pine Ridge Road Ft. Myers Beach, FL 33839 USA	941-335-2678 tdubendorf@ieee.org	Approve, no comments (Y)	-	-	-		Government
08972887	Dr. Sourav Dutta VSNL Internet HQ, 16th Floor, VSB, M G Road Mumbai, MH 400001 INDIA	+91 22 267-4269 s.dutta@ieee.org	Approve, no comments (Y)	-	-	-		General Interest
41385184	Carl Eklund Nokia P.O. Box 407 (Itämerenkatu 11-13) Nokia Group (Helsinki), Not applicable Fin-00045 Finland	+358718036566 carl.eklund@nokia.com	Approve, comments (Y1)	-	-	-	Approve, comments without comment	General Interest
08518995	Avraham Freedman Hexagon System Engineering Ltd. 2 Kaufman st. Tel-Aviv, XX 68012 Israel	+972 3 5101128 avif@hexagonltd.com	Approve, no comments (Y)	-	-	-		General Interest
02557874	Brian Gieschen WiLAN 2891 Sunridge Way Calgary, Alberta T1Y7K7 Canada	(403)273-9133 briang@wi-lan.com	Approve, no comments (Y)	-	-	-		Producer
01883768	James Gilb Appairnt Technologies 9921 Carmel Mountain Rd. #247 San Diego, CA 92129 USA	858-229-4822 gilb@ieee.org	Approve, no comments (Y)	-	-	-		User
01150382	José A. Gutierrez Eaton Corporation 4201 North 27th Street Milwaukee, WI 53216 USA	414-4496525 josegutierrez@eaton.com	Approve, comments (Y1)	-	-	-	Approve, comments without comment	User
02540714	Zion Hadad RUNCOM	+972-3-52560655 zionh@runcom.co.il	Approve, no comments (Y)	-	-	-		Producer

	2 Hachoma St. RISHON LE TZION, ISRAEL 75655 israel							
40306847	Simon Harrison Red-M Communications Ltd Neptune House, Mercury Park Wycombe Lane, Wooburn Green, Bucks HP10 0HH UK	+44 1628 819 604 simon.harrison@red-m.com	Approve, no comments (Y)	-	-	-		General Interest
01670801	Robert Heile Appairent 11 Louis Road Attleboro, MA 02703 USA	781-929-4832 bheile@ieee.org	-	-	-	-		General Interest
01556620	Hamadi Jamali ITC 983 Johnson st Redwood City, CA 94061 usa	(650)520-5824 hjamali@ieee.org	Approve, no comments (Y)	-	-	-		User
41442511	Kevin Karcz University of New Hampshire - IOL 121 Technology Drive, suite 2 Durham, NH 03824 US	603-862-1008 kjk@iol.unh.edu	Abstain for lack of time (A1)	-	-	-		General Interest
05995253	Brian Kiernan InterDigital Communications Corp. 781 Third Ave. King of Prussia, PA 19406 USA	610 878-5637 brian.kiernan@interdigital.com	Approve, no comments (Y)	-	-	-		General Interest
41304605	Pi-Cheng Law Chunghwa Telecom. Labs. P.O. Box 6-14 Yang-Mei Yang-Mei, Taoyuan 326 Taiwan	+886 3 424-5738 pclaw@ieee.org	Approve, no comments (Y)	-	-	-		User
08108896	Yeou-Song Lee Anritsu Company 490 Jarvis Drive Morgan Hill, CA 95037 U.S.A.	408-778-2000 x4976 brian.lee@ieee.org	-	-	-	-		User
40255444	Christina Lim Photonics Research Laboratory	+61-3-8344-4486 c.lim@ee.mu.oz.au	Approve, no comments (Y)	-	-	-		Government

	Dept. of Electrical & Electronic Engineering The University of Melbourne, Victoria 3010 Australia							
05845615	Gregory Luri CITY OF ST. CHARLES 2 East Main Street St. Charles, IL 60174-1984 USA	630-377-4475 gluri@ci.st-charles.il.us	-	-	-			User
08122103	Roger Marks NIST 325 Broadway, MC 813.00 Boulder, CO 80305 USA	+1 303 497 3037 r.b.marks@ieee.org	Approve, comments (Y1)	1	-	1		Government
40183512	Kyle Maus AITG 6033 N. Sheridan Rd., #17H Chicago, IL 60660 USA	312-371-9727 sargon@ieee.org	Approve, no comments (Y)	-	-	-		User
01271899	George Miao 2 Inverness Drive Marlboro, NJ 07746 USA	732-462-7447 GMiao@msn.com	Approve, no comments (Y)	-	-	-		General Interest
40223729	Apurva Mody Georgia Institute of Technology Department of Electrical and Computer Engineering Atlanta, GA 30332-0250 USA	404-894-9370 apurva@ece.gatech.edu	Approve, no comments (Y)	-	-	-		General Interest
41270317	Ronald Murias Wi-LAN, Inc. 2891 Sunridge Way N.E. Calgary, Alberta T1Y 7K CANADA	403-204-7766 ron@urias.ca	Approve, no comments (Y)	-	-	-		Producer
21087809	Robert Nelson Raze Technologies 2540 E Plano Pkwy Suite 188 Plano, Tx 75074 USA	972-516-1283 bnelson@razetechnologies.com	Approve, no comments (Y)	-	-	-		General Interest
07446628	Michael Newman CSI Telecommunications 1700 California Street San Francisco, CA	415-751-8845 miken@csitele.com	Approve, no comments (Y)	-	-	-		General Interest

	94109 USA							
41454280	Charles Ngethe Kenya Wildlife service-Telecomms Langata Road Nairobi, Nairobi 00400 Kenya	254 722 686442 cngethe@kws.org	Disapprove, comments (N)	-	1	-		User
07858459	Paul Nikolich 18 Bishops Lane Lynnfield, MA 01940 USA	857.205.0050 p.nikolich@ieee.org	Abstain for lack of time (A1)	-	-	-		User
00353235	Subbu Ponnuswamy Sigaram Networks 1005 Blue Ravine Road, #926 Folsom, CA 95630 USA	916-984-0868 subbu@acm.org	Approve, no comments (Y)	-	-	-		General Interest
01453273	Vikram Punj Storm Ventures 6558 Leyland Park Ct San Jose, CA 95120 USA	408-268-1479 punj@msn.com	Approve, no comments (Y)	-	-	-		Producer
08097867	Jon Rosdahl Micro Linear 11734 South Election Road, Suite 200 Draper, Utah 84020-6432 United States of America	801-617-2508 jrosdahl@ieee.org	Approve, comments (Y1)	-	1	-		General Interest
40156964	Neil Shipp Commsonic Ltd St Johns Innovation Center, Cowley Road Cambridge, Cambridgeshire CB4 0WS UK	+44 1223 572364 nrs@ieee.org	Approve, comments (Y1)	2	1	-		General Interest
41392686	Kenneth Stanwood Ensemble Communications 9890 Towne Centre Dr. San Diego, CA 92121 USA	858 404 6559 ken@ensemble.com	Approve, comments (Y1)	-	-	-	Approve, comments without comment	Producer
41328136	LEI WANG Wi-LAN Inc. 2891 Sunridge Way, N.E. Calgary, Alberta T1Y 7K7 Canada	(403)204-3288 leiw@wi-lan.com	-	-	-	-		General Interest
41387608	Stanley Wang	(408) 263-0300	Approve, no	-	-	-		Producer

	RedDot Wireless, Inc. 1533 California Circle, Suite 200 Milpitas, CA 95035 USA	stanley@reddotwireless.com	comments (Y)					
41446880	Vladimir Yanover Alvarion Ltd. 21 A Habarzel St. Ramat - Hahayal Tel - Aviv, N/A for Israel 61131 Israel	+972-36457834 vladimir.yanover@alvarion.com	-	-	-			Producer
40354434	Jung Yee IceFyre Semiconductor 411 Legget Dr., Suite 300 Kanata, ON K2K 3C9 Canada	613.599.3000 jyee@icefyre.com	Abstain for lack of time (A1)	-	-			General Interest
05907266	Oren Yuen 1504 Steinhart Ave Redondo Beach, CA 90278 USA	310-372-9334 oren.yuen@ieee.org	Approve, no comments (Y)	-	-			User
Comment Totals *				3	3			1
(*) 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)	Abstention(s)	Not Returned	Total
User	8	1	1	2	12
Producer	9	0	0	2	11
General Interest	17	0	3	2	22
Government	3	0	0	0	3
Voting Tally	37	1	4	6	48

Abstention details:	4 for lack of time (A1)	0 for lack of expertise (A2)	0 for other reasons (A3)
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Ballot Summary

P802.16c/D4 Recirculation
 Closing date: 2002-10-19

This is a recirculation ballot. The report collates the results from the following groups: 0000314 0000370.

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

48 eligible people in this ballot group.

40 affirmative votes
 1 negative votes
 4 abstention votes

=====

45 votes received = 93% returned
 8% abstention

2. The 75% affirmation requirement is being met.

40 affirmative votes
 1 negative votes

=====

41 votes = 97% 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	301-493-4374 bbarrow@nist.gov	yes	-
00001000	Michelle Turner	SCC10	732-562-3825 m.d.turner@ieee.org	-	yes
00001001	Michelle Turner	Editorial	732-562-3825 m.d.turner@ieee.org	-	yes

Balloters

Number	Name	Phone / E-mail	Vote	T	E	Graphics	Status Notes	Interest Category
41371999	Gordon Antonello Wi-LAN Inc. 2891 Sunridge Way NE Calgary, Alberta T1Y 7K7 Canada	403 207-6477 gantonello@wi-lan.com	Approve, no comments (Y)	-	-	-		Producer
00095638	Gholamreza ("Reza") Arefi-Anbarani ("Arefi") ArrayComm, Inc. 2300 N Street NW, Suite 700 Washington,, District of Columbia 20037	(202) 383-3346 reza@arraycomm.com	Approve, no comments (Y)	-	-	-		General Interest

	USA							
41327250	Eladio Arvelo Mobilian Corporation 12707 High Bluff Drive. Suite 335 San Diego, California 92130 United States	(858) 436-2216 earvelo@mobilian.com	Abstain for lack of time (A1)	-	-	-		General Interest
06154470	Morris Balamut n/a 13 Matawan Green Lane Matawan, NJ 07747 US	732-566-3588 m.balamut@ieee.org	Approve, no comments (Y)	-	-	-		User
05587654	John Barr Motorola 1303 E. Algonquin Road Schaumburg, IL 60010 USA	(847) 576-8706 john.barr@motorola.com	Approve, no comments (Y)	-	-	-		General Interest
41446421	Dean Chang Aperto Networks 1637 S. Main Street Milpitas, CA 95035 USA	408 719-9977 dchang@apertonet.com	Approve, no comments (Y)	-	-	-		Producer
00812131	Naftali Chayat Alvarion HaBarzel 21a Tel Aviv 61131 Israel	+972-54-225549 naftali.chayat@alvarion.com	-	-	-			Producer
40252619	Elizabeth Chesnutt 326815 Georgia Tech Station Atlanta, GA 30332 USA	770 801-9249 eliz@ece.gatech.edu	Approve, no comments (Y)	-	-	-		General Interest
40237493	Keith Chow 28 Hawthorn Way Cambridge, Cams CB4 1AX UK	+44 (0)1223518538 chow.keith@computer.org	Approve, no comments (Y)	-	-	-		General Interest
03210820	Todor Cooklev Aware, Inc. 3685 Mt Diablo Blvd suite 395 Lafayette, CA 94549 USA	925-984-5283 tcooklev@ieee.org	Approve, no comments (Y)	-	-	-		General Interest
06503270	Jose M. Costa Nortel Networks P.O. Box C-3511 Ottawa, Ontario K1Y 4H7 Canada	+1 613 763-7574 costa@nortelnetworks.com	Approve, no comments (Y)	-	-	-		Producer

05046479	Prof.(Dr.) GURU DUTT DHINGRA Dhingra & Associates Opp. K. J. Mehta High School NASIK ROAD -422101, Maharashtra 422101 INDIA	+91 253 461836 dhingragd@sancharnet.in	Approve, no comments (Y)	-	-	-		User
41311588	Vern Dubendorf Lee County / ITG 17500 Pine Ridge Road Ft. Myers Beach, FL 33839 USA	941-335-2678 tdubendorf@ieee.org	Approve, no comments (Y)	-	-	-		Government
08972887	Dr. Sourav Dutta VSNL Internet HQ, 16th Floor, VSB, M G Road Mumbai, MH 400001 INDIA	+91 22 267-4269 s.dutta@ieee.org	Approve, no comments (Y)	-	-	-		General Interest
41385184	Carl Eklund Nokia P.O. Box 407 (Itämerenkatu 11-13) Nokia Group (Helsinki), Not applicable Fin-00045 Finland	+358718036566 carl.eklund@nokia.com	Approve, comments (Y1)	-	-	-	Approve, comments without comment	General Interest
08518995	Avraham Freedman Hexagon System Engineering Ltd. 2 Kaufman st. Tel-Aviv, XX 68012 Israel	+972 3 5101128 avif@hexagonltd.com	Approve, no comments (Y)	-	-	-		General Interest
02557874	Brian Gieschen WiLAN 2891 Sunridge Way Calgary, Alberta T1Y7K7 Canada	(403)273-9133 briang@wi-lan.com	Approve, no comments (Y)	-	-	-		Producer
01883768	James Gilb Appairnt Technologies 9921 Carmel Mountain Rd. #247 San Diego, CA 92129 USA	858-229-4822 gilb@ieee.org	Approve, no comments (Y)	-	-	-		User
01150382	José A. Gutierrez Eaton Corporation 4201 North 27th Street Milwaukee, WI 53216 USA	414-4496525 josegutierrez@eaton.com	Approve, comments (Y1)	-	-	-	Approve, comments without comment	User
02540714	Zion Hadad	+972-3-52560655	Approve, no	-	-	-		Producer

	RUNCOM 2 Hachoma St. RISHON LE TZION, ISRAEL 75655 israel	zionh@runcom.co.il	comments (Y)					
40306847	Simon Harrison Red-M Communications Ltd Neptune House, Mercury Park Wycombe Lane, Wooburn Green, Bucks HP10 0HH UK	+44 1628 819 604 simon.harrison@red-m.com	Approve, no comments (Y)*	-	-	-		General Interest
01670801	Robert Heile Appairent 11 Louis Road Attleboro, MA 02703 USA	781-929-4832 bheile@ieee.org	-	-	-	-		General Interest
01556620	Hamadi Jamali ITC 983 Johnson st Redwood City, CA 94061 usa	(650)520-5824 hjamali@ieee.org	Approve, no comments (Y)	-	-	-		User
41442511	Kevin Karcz University of New Hampshire - IOL 121 Technology Drive, suite 2 Durham, NH 03824 US	603-862-1008 kjk@iol.unh.edu	Abstain for lack of time (A1)	-	-	-		General Interest
05995253	Brian Kiernan InterDigital Communications Corp. 781 Third Ave. King of Prussia, PA 19406 USA	610 878-5637 brian.kiernan@interdigital.com	Approve, no comments (Y)	-	-	-		General Interest
41304605	Pi-Cheng Law Chunghwa Telecom. Labs. P.O. Box 6-14 Yang-Mei Yang-Mei, Taoyuan 326 Taiwan	+886 3 424-5738 pclaw@ieee.org	Approve, no comments (Y)	-	-	-		User
08108896	Yeou-Song Lee Anritsu Company 490 Jarvis Drive Morgan Hill, CA 95037 U.S.A.	408-778-2000 x4976 brian.lee@ieee.org	-	-	-	-		User
40255444	Christina Lim Photonics Research	+61-3-8344-4486 c.lim@ee.mu.oz.au	Approve, no comments (Y)	-	-	-		Government

	Laboratory Dept. of Electrical & Electronic Engineering The University of Melbourne, Victoria 3010 Australia							
05845615	Gregory Luri CITY OF ST. CHARLES 2 East Main Street St. Charles, IL 60174-1984 USA	630-377-4475 gluri@ci.st-charles.il.us	Approve, no comments (Y)*	-	-	-		User
08122103	Roger Marks NIST 325 Broadway, MC 813.00 Boulder, CO 80305 USA	+1 303 497 3037 r.b.marks@ieee.org	Approve, comments (Y1)	1	-	1		Government
40183512	Kyle Maus AITG 6033 N. Sheridan Rd., #17H Chicago, IL 60660 USA	312-371-9727 sargon@ieee.org	Approve, no comments (Y)*	-	-	-		User
01271899	George Miao 2 Inverness Drive Marlboro, NJ 07746 USA	732-462-7447 GMiao@msn.com	Approve, no comments (Y)	-	-	-		General Interest
40223729	Apurva Mody Georgia Institute of Technology Department of Electrical and Computer Engineering Atlanta, GA 30332-0250 USA	404-894-9370 apurva@ece.gatech.edu	Approve, no comments (Y)*	-	-	-		General Interest
41270317	Ronald Murias Wi-LAN, Inc. 2891 Sunridge Way N.E. Calgary, Alberta T1Y 7K CANADA	403-204-7766 ron@urias.ca	Approve, no comments (Y)	-	-	-		Producer
21087809	Robert Nelson Raze Technologies 2540 E Plano Pkwy Suite 188 Plano, Tx 75074 USA	972-516-1283 bnelson@razetechnologies.com	Approve, no comments (Y)	-	-	-		General Interest
07446628	Michael Newman CSI Telecommunications 1700 California Street	415-751-8845 miken@csitele.com	Approve, no comments (Y)*	-	-	-		General Interest

	San Francisco, CA 94109 USA							
41454280	Charles Ngethe Kenya Wildlife service-Telecomms Langata Road Nairobi, Nairobi 00400 Kenya	254 722 686442 cngethe@kws.org	Disapprove, comments (N)	-	1	-		User
07858459	Paul Nikolich 18 Bishops Lane Lynnfield, MA 01940 USA	857.205.0050 p.nikolich@ieee.org	Abstain for lack of time (A1)	-	-	-		User
00353235	Subbu Ponnuswamy Sigaram Networks 1005 Blue Ravine Road, #926 Folsom, CA 95630 USA	916-984-0868 subbu@acm.org	Approve, no comments (Y)	-	-	-		General Interest
01453273	Vikram Punj Storm Ventures 6558 Leyland Park Ct San Jose, CA 95120 USA	408-268-1479 punj@msn.com	Approve, no comments (Y)*	-	-	-		Producer
08097867	Jon Rosdahl Micro Linear 11734 South Election Road, Suite 200 Draper, Utah 84020-6432 United States of America	801-617-2508 jrosdahl@ieee.org	Approve, comments (Y1)	-	1	-		General Interest
40156964	Neil Shipp Commsonic Ltd St Johns Innovation Center, Cowley Road Cambridge, Cambridgeshire CB4 0WS UK	+44 1223 572364 nrs@ieee.org	Approve, comments (Y1)	2	1	-		General Interest
41392686	Kenneth Stanwood Ensemble Communications 9890 Towne Centre Dr. San Diego, CA 92121 USA	858 404 6559 ken@ensemble.com	Approve, comments (Y1)	-	-	-	Approve, comments without comment	Producer
41328136	LEI WANG Wi-LAN Inc. 2891 Sunridge Way, N.E. Calgary, Alberta T1Y 7K7 Canada	(403)204-3288 leiw@wi-lan.com	Approve, no comments (Y)*	-	-	-		General Interest

41387608	Stanley Wang RedDot Wireless, Inc. 1533 California Circle, Suite 200 Milpitas, CA 95035 USA	(408) 263-0300 stanley@reddotwireless.com	Approve, no comments (Y)	-	-	-		Producer
41446880	Vladimir Yanover Alvarion Ltd. 21 A Habarzel St. Ramat - Hahayal Tel - Aviv, N/A for Israel 61131 Israel	+972-36457834 vladimir.yanover@alvarion.com	Approve, no comments (Y)*	-	-	-		Producer
40354434	Jung Yee IceFyre Semiconductor 411 Legget Dr., Suite 300 Kanata, ON K2K 3C9 Canada	613.599.3000 jyee@icefyre.com	Abstain for lack of time (A1)	-	-	-		General Interest
05907266	Oren Yuen 1504 Steinhart Ave Redondo Beach, CA 90278 USA	310-372-9334 oren.yuen@ieee.org	Approve, no comments (Y)	-	-	-		User
Comment Totals *				3	3	1		
<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 balloter 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)	Abstention(s)	Not Returned	Total
User	9	1	1	1	12
Producer	10	0	0	1	11
General Interest	18	0	3	1	22
Government	3	0	0	0	3
Voting Tally	40	1	4	3	48

Abstention details:	4 for lack of time (A1)	0 for lack of expertise (A2)	0 for other reasons (A3)
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Unresolved negatives & responses

(1 non-technical comment from the single Disapprove voter)

Voter: *Charles Ng'ethe*

Comment Type: *Editorial* (as designated by Voter)

Comment: *The PDF I downloaded had so many cancellations and repeated numbers which run from 1 to 65 for each page.*

Suggested Remedy: *Please provide a document that is clear without cancellations or empty pages which imply there is some missing information.*

Decision of Group: *Accepted-Modified*

Resolution of Group:

Delete empty page ii, or mark "This page intentionally left blank."

Set line numbers (1-65 on left column) in color to indicate that they are temporary.

Reason for Recommendation:

Line numbers must remain in draft for commenting purposes, but will not be in published standard.

The "cancellations" must remain, since they are a fundamental part of the standard. This standard is an amendment to IEEE Standard 802.16 The marks are used to indicate changes to that standard. This is explained in "Editorial instructions" on Page 5. This editorial procedure is required by IEEE-SA.

Formal Email Response of Voter to Resolution:

None. Did not participate in recirculation.

Informal Email Response of Voter to Resolution:

Dear Dr. Marks.

Thanks for your clarification. However I do not have any problems with the contents.

For us third world Engineers we have alot of time to scrutinise and study the standards. Work is too routine and easy leaving us with alot of idle time. We only implement/maintain networks designed from the 1st world It's always a priviledge to read upcoming standards and be part of the technology development.

thanks

Ng'ethe

PAR FORM

05/15/02

PAR Status: Amendment of Standard

PAR Approval Date: 05/09/2002

PAR Signature Page on File: Yes

Review of Standards Development Process: No

1. Assigned Project Number: 802.16c

2. Sponsor Date of Request: 03/22/2002

3. Type of Document: Standard for

4. Title of Document:

Draft: Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Detailed System Profiles for 10-66 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: Amendment to Std. 802.16-2001

7. Contact Information of Working Group:

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

Name of Working Group Chair: Roger B Marks

Telephone: (303) 497-3037

FAX: (303) 497-7828

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: 08/05/2002

11. Fill in Projected Completion Date for Submittal to RevCom: 2/1/2003

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 Amendment updates and expands Clause 12 of IEEE Std 802.16-2001, which concerns system profiles that list sets of features and functions to be used in typical implementation cases. Errors and inconsistencies in IEEE Std 802.16-2001 will also be corrected. The scope is limited to 10-66 GHz.

13. Purpose of Proposed Project:

To aid the deployment of interoperable systems by defining and naming a set of system profiles to which manufacturers can test compliance, and by correcting errors and inconsistencies.

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? 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? No

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

9. Sponsoring Society and Committee: MTT will be a co-sponsor, along with C/LM.



Jodi Haasz

05/09/2002 07:39 AM

To: P.Nikolich@ieee.org
cc: r.b.marks@ieee.org, bheile@ieee.org
Subject: Approved PARs

9 May 2002

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

Re: P802.15.2 Recommended Practice for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks specific requirements - Part 15.2: Coexistence of Wireless Personal Area Networks with Other Wireless Devices Operating in Unlicensed Frequency Bands

P802.16c Amendment to IEEE Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed Broadband Wireless Access Systems - Detailed System Profiles for 10-66 GHz

Dear Paul:

I am pleased to inform you that on 9 May 2002 the IEEE-SA Standards Board approved the above referenced projects until December 2004 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 August 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

PS - The information in the .pdf file is viewable in Adobe Reader, version 3.0 or higher. If you do not have this

2002/09/24

IEEE 802.16-02/43r2

Document under Review: **P802.16c/D3**

Ballot Number: **0000314**

Comment Date

Comment # **06**

Comment submitted by: Jennifer

Longman

Other

Comment Type **Editorial** Starting Page # Starting Line # Fig/Table# Section

MEMO

TO: Balloting Center

FROM: Jennifer Longman

DATE: 20 August 2002

RE: SCC 10 Coordination of IEEE P802.16c/D3

IEEE P802.16c/D3 meets all phases of SCC 10 coordination.

Suggested Remedy

Proposed Resolution

Recommendation:

Recommendation by

Reason for Recommendation

Resolution of Group

Decision of Group: Accepted

Reason for Group's Decision/Resolution

Group's Notes

Group's Action Items

Editor's Notes

Editor's Actions |) none needed

Editor's Questions and Concerns

Editor's Action Items

Document under Review: **P802.16c/D3**Ballot Number: **0000314**

Comment Date

Comment # **07**

Comment submitted by: Jennifer

Longman

Other

Comment	Type	Editorial	Starting Page #	Starting Line #	Fig/Table#	Section
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MEMO

TO: 802.16 Working Group
 FROM: Jennifer Longman
 DATE: 20 August 2002
 RE: Editorial Review of P802.16c/D3

Upon review of P802.16c/D3, I have the following comments:

1. The information now contained in the Scope and Purpose should be removed and added to the EDITORIAL NOTE. No new information should be added to the Scope and Purpose, unless you are specifically modifying those clauses in the base standard.

The following is an example of from 802.1t-2001:

EDITORIAL NOTE—This amendment to IEEE Std 802.1D, 1998 Edition (ISO/IEC 15802-3:1998) defines the changes necessary in order to address maintenance items that have been brought to the attention of the 802.1 Working Group. These changes are defined as a series of additions to, and modifications of, the existing text of ISO/IEC 15802-3:1998; this supplement therefore assumes all material, including references, abbreviations, definitions, procedures, services and protocols defined in the base text. Text shown in **bold italics** in this amendment defines the editing instructions necessary in order to incorporate the modifications and additions into the base text. Three editing instructions are used: **change**, **delete**, and **insert**. **Change** is used to make a change to existing material. The editing instruction specifies the location of the change and describes what is being changed either by using strikethrough to remove old material or underline to add new material. **Delete** removes existing material. **Insert** adds new material without changing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. Editorial notes will not be carried over into future editions of IEEE Std 802.1D.

The following is an example from 802.11d-2001 showing a slightly different style:

[This amendment is based on the current edition of IEEE Std 802.11, 1999 Edition and the IEEE Std 802.11a-1999 and IEEE Std 802.11b-1999 amendments.]

NOTE—The editing instructions contained in this amendment define how to merge the material contained herein into the existing base standard to form the new comprehensive standard as created by the addition of IEEE Std 802.11-1999.

The editing instructions are shown in **bold italic**. Three editing instructions are used: change, delete, and insert. **Change** is used to make small corrections in existing text or tables. The editing instruction specifies the location of the change and describes what is being changed either by using strikethrough (to remove old material) or underline (to add new material). **Delete** removes existing material. **Insert** adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. Editorial notes will not be carried over into future editions.

If you have any questions, please do not hesitate to contact me at any time.

Best regards,

Jennifer Longman
j.Longman@ieee.org
 (732) 562-6355

Resolution of Group

Decision of Group: **Accepted**

From: sa-ballot@ieee.org
To: bbarrow@nist.gov
Reply-To: sa-ballot@ieee.org
Cc: r.b.marks@ieee.org, a.ortiz@ieee.org
X-IEEE-SA-Balloting: courtesy_copy, 0000314
Subject: Courtesy copy of ballot for P802.16c/D3
Date: Mon, 19 Aug 2002 16:14:25 -0400 (EDT)
Sender: joe@standards.ieee.org

(Message sent via IEEE Standards webmail)

Here is a courtesy copy of a ballot for P802.16c/D3
just submitted:

Ballot/Comment Data for 0000314 (P802.16c/D3)
Submitted Mon Aug 19 16:14:24 EDT 2002
Type: ballot
Record Number: 00601054

ballot_code = 0000314
form_type = ballot
ieee_number = 00601054
name = Bruce Barrow
email = bbarrow@nist.gov
phone = 301-493-4374
fax = 301-493-6363
org = IEEE SCC14
vote = Coordination

(End of IEEE Standards webmail message)