



Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	IEEE 802.16 Working Group Session #23 Minutes	
Date Submitted	2003-01-16	
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Re:	IEEE 802.16 Session #23 Minutes (San Jose, California, US)	
Abstract		
Purpose	To record meeting minutes.	
Notice	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.	
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Patent Policy and Procedures	The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures < http://ieee802.org/16/ipr/patents/policy.html >, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair < mailto:chair@wirelessman.org > as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site < http://ieee802.org/16/ipr/patents/notices >.	

Minutes of IEEE 802.16 Session #23

IEEE 802.16 Working Group

San Jose, California, US

13-16 January, 2003

Opening Plenary

Call to Order

Chair Roger Marks called the meeting to order at 2:10pm on 01-13-2002.

802.16 Officers

Chair: Roger Marks

Vice Chair: Vacancy

Election to be held in this meeting

Secretary: Dean Chang

Members

There were 82 members following Session #23, 11 memberships lost by failure to participate in Letter Ballots.
71 Members at this Session (see Appendix A).

Agenda (<http://ieee802.org/16/meetings/mtg23/opening.html>)

Motion 1: Carl Eklund, To approve Opening Plenary agenda as presented, 2nd Anader Benyamin-Seeayar.
Motion 1: carries by unanimous voice vote

Motion 2: Gordon Antonello, To approve Minutes of Session #22 (802.16-02/73)
(http://ieee802.org/16/docs/02/80216-02_73.pdf), 2nd Brian Kiernan
Motion 2: carries by unanimous voice vote.

Chair's Status Report ([IEEE 802.16-03/01](#))

IEEE 802 Rules

Patents: The following advice was provided and two slides were shown:

- That an opportunity was provided for WG members to identify or disclose patents that the WG member believes may be essential for the use of that standard;
- Any responses that were given, specifically the patents and patent applications that were identified (if any) and by whom. (no responses)

Slide #1 is titled IEEE-SA Standards Board Bylaws on Patents in Standards

Slide #2 is titled Inappropriate Topics for IEEE WG Meetings.

802 Standards Board Actions

Approved as an IEEE Standard as of 11 December:

IEEE 802.16c-2002 ("IEEE Standard for Local and metropolitan area networks – Part 16: Air Interface for Fixed Broadband Wireless Access Systems – Amendment 1: Detailed System Profiles for 10-66 GHz)

The following 3 PARs were approved that day:

P802.16e

P802.16d

P1802.16.2

P802.16a is at RevCom for January 2003 approval

IEEE 802 News

A number of 802 PARs were approved by IEEE-SA Standards Board on 11 December

802.11j 4.9-5 GHz Operation in Japan

802.11k Radio Resource Measurement

802.15.3a higher rate PHY for 802.15.3

802.15.4 PAR revision

802.20 Mobile Broadband Wireless Access

802 Rules Change Status

- Changes to support TAGs approved in November 2002
- Quicker loss of membership failed in Nov 2002, not revived
- Changes to SEC email voting failed in November 2002

Schedule for the Week

Motion 3: Naftali Chayat To amend the agenda have a midweek Plenary Wednesday 4:00-5pm,, 2nd Marianna Goldhammer.

Friendly Amendment – Nico Van Waes - to make the meeting tentative: if any of the task group chairs have something to discuss, they can inform the Working Group chair and hold a meeting.

Motion 3: Fails 6-7.

Task Groups

TG2

Phil Whitehead, Chair – Roger Marks presenting

Reza Arefi, Editor

- Nov 802: SEC granted conditional approval to open Sponsor Ballot on D3
- Sponsor Ballot: 12 Dec - 11 Jan
 - Approve 41
 - Disapprove 2
 - Abstain 6
- Approved pending resolution of 112 comments/recirculation

TGC

Ken Stanwood, Chair
Carl Eklund, Editor

- 1802.16.1 (10-66 GHz PICS)
 - Standalone publication
 - WG Letter Ballot #9 complete (no Dis votes)
 - Vote on Thursday to send to Sponsor Ballot
- 1802.16.2 (10-66 GHz TSS&TP)
 - Standalone publication
 - PAR approved in Dec
 - Call for Contributions issued
 - Proposed Draft received as a contribution

TGd

Chair: Gordon Antonello
Nico van Waes: Editor

- 802.16d (2-11 System Profiles, + Errata):
 - Amendment to base standard (802.16/a/c)
 - PAR approved 11 Dec
 - Call for Contributions issues
 - 10 contributions received by 12 Jan

TGe

Chair: Brian Kiernan
Vice Chair: Shawn Taylor

802.16e (Mobility)
Follow up to 8 months of 802.16 Study Groups
Amendment to base standard (802.16a/c)
PAR approved 11 Dec
Call for Contributions Issued
9 contributions received by 12 Jan

Future Sessions

Session 24 Dallas, TX 9-14 March 2003.
Session 25 Singapore 12-16 May 2003
Session 26 San Francisco, CA 21-24 July 2003
Session 27 possibly in Denver, CO

Election of Vice Chair

There were two candidates for Vice Chair:
Naftali Chayat
Carl Eklund

An election was held at the meeting in accordance with the procedure in 802.16-02/09. Paper ballots were collected by the Working Group Secretary.

New Business

Paul Thompson would like information about number of downloads of 802.16 standards.

David Trinkwon mentioned that in the WCA Engineering meeting there was quite a bit of discussion about the lack of security for hot spots. All 802.11 access points should use security.

Closing

Motion 5 Bob Nelson, To adjourn the meeting 2nd Remi Chayer

Motion 5 carries by unanimous voice vote.

The meeting was adjourned at 3:35pm.

Closing Plenary

Opening

Chair Roger Marks called the meeting to order at 7:00 pm on 16 July 2003.

Agenda

Motion 6: Lars Lindh, to approve the agenda as presented, 2nd Naftali Chayat.

Motion 6: carries by unanimous voice vote

Vice Chair Election

The Chair announced that, as a result of the Monday election, the new 802.16 Vice Chair is Carl Eklund.

Meeting Arrangements

Any feedback regarding a co-location with WCA? All of the comments regarding co-location were positive.

Task Group 2

Chair: Phil Whitehead

The session report (IEEE 802.16.2a-03/02) was presented.

The following motions were made:

Motion 7: "To approve the resolutions contained in database [802.16-03/03r1](#), create a new draft D4 and forward for recirculation ballot."

Motion 7: carries by unanimous voice vote.

Motion 8: "To approve the formation of a ballot resolution committee, to resolve any comments from sponsor ballot recirculation of 802.16-03/03r1 and draft P802.16.2a/D4 (subject to details in [802.16.2a-03/02](#)."

Motion 8: carries by unanimous voice vote.

Task Group C

Chair: Ken Stanwood

[WG Recirculation #9a](#) concluded yesterday; no ballots were submitted. This was a ballot to forward P1802.16.1/D2 for Sponsor Ballot.

Motion 9: "To forward the PAR [802.16-03/04](#) for a proposed project 1802.16.3 on 10-66 GHz Radio Conformance Tests."

Motion 9: carries by unanimous voice vote.

Task Group d

Chair: Gordon Antonello

Report (IEEE 802.16d-03/03):

A call for comments and contributions (IEEE 802.16d-03/02) will be made after the session; it will seek comments on the working document IEEE 802.16d-03/01.

Task Group e

Chair: Brian Kiernan

Report (IEEE 802.16e-03/04):

Editors will be Ron Murias and Ken Peirce.

An ad hoc group, chaired by Itzik Kitroser, was created to study handoff issues. The group is tasked to developed draft text.

Group intends to go to sponsor ballot by November, per the PAR.

Future Sessions

Session #24 March 2003 Dallas, TX

Session #25 May 2003 Singapore with all wireless working groups.

Session #26 July 2003 San Francisco, CA

Session #27 September 2003 Possibly Denver, CO with all wireless working groups.

Liaison

Motion 10: Brian Kiernan To forward a letter (IEEE L802.16-03/01) to WCA, 2nd Naftali Chayat

Motion 10: carries by unanimous voice vote.

Roger Marks will send an email to Carl Stevenson stating that the 802.16 WG has no objections to IEEE 802.18-03/006r0 and IEEE 802.18-03/005r0, since no one raised an objection.

ETSI BRAN

Report: Marianna Goldhammer

HIPERMAN is aligned with a subset of the IEEE 802.16a standard (WirelessMAN-OFDM).

There was a vote regarding mandatory and optional requirements for the standard. The result was that OFDM is mandatory and OFDMA optional.

ETSI TM4

Report: Marianna Goldhammer

Currently the group is working to replace the existing standards by a new harmonized standard. It is a huge effort and will take more time.

The multibeam antenna standard was approved.

ITU

Report: Marianna Goldhammer

There are many issues being reviewed by the ITU. Currently IEEE 802 does not have a liaison relationship with ITU. One of the major issues is working with the regulators.

Publicity

Session #23 report: There were no objections to having the chair, Roger Marks, edit the report and publish it when completed <<http://iee802.org/16/meetings/mtg23/report.html>>.

New Business

Motion 11: Remi Chayer To adjourn the meeting, 2nd Ron Murias.

2003-02-18

IEEE 802.16-03/07

Motion 11: carries by unanimous voice vote.

Name\Given	Name\Family	Company	City	State\Province	Country
Aditya	Agrawal	Fujitsu Microelectronics America, Inc.	San Jose	CA	USA
Gordon	Antonello	Wi-LAN Inc.	Calgary	AB	Canada
Reza	Arefi	ArrayComm, Inc.	Washington	DC	USA
Jori	Arrakoski	Nokia Mobile Phones	Salo		Finland
Malik	Audeh	Trapeze Networks	Pleasanton	CA	USA
Eli	Avivi	WaveIP	Yokneam		Israel
Brian	Banister	Comtech AHA	Pullman	WA	USA
Anader	Benyamin- Seeyar	Advantech AMT Inc.	Dorval	PQ	Canada
Baruch	Buskila	Rafael	Haifa		Israel
Dean	Chang	Aperto Networks	Milpitas	CA	USA
Naftali	Chayat	Alvarion Ltd.	Tel Aviv		Israel
Rémi	Chayer	Harris Corporation	Dollard-des- Ormeaux	PQ	Canada
Brian	Edmonston	iCODING Technology Inc.	San Diego	CA	USA
Brian	Eidson	Conexant Systems, Inc.	San Diego	CA	USA
Henry	Eilts	Texas Instruments, Inc.	Dallas	TX	USA
Carl	Eklund	Nokia	Helsinki		Finland
John	Fan	Flarion Technology	Bedminster	NJ	USA
Avraham	Freedman	Hexagon System Engineering	Tel-Aviv		Israel
Andrew	Garrett	Akelia Wireless	Southampton		UK
G. Jack	Garrison	Harris Corporation	New Westminster	BC	Canada
Marianna	Goldhammer	Alvarion	Tel Aviv		Israel
Zion	Hadad	Runcom Technologies Ltd	Rishon Le Zion		Israel
Grant	Hulse	RF Magic, Inc.	San Diego	CA	USA
David	Husson		East Sandwich	MA	USA

Tal	Kaitz	Alvarion Ltd.	Tel Aviv		Israel
Phil	Kelly	BeamReach Networks, Inc.	Sunnyvale	CA	USA
Ofer	Kelman	Airspan Networks (Israel) Ltd.	Lod		Israel
Brian	Kiernan	InterDigital Communications Corp	King of Prussia	PA	USA
Itzik	Kitroser	Runcom Technologies Ltd	Rishon Le Zion		Israel
Mark	Klerer	Flarion Technology	Bedminster	NJ	USA
Thomas	Kolze	Broadcom Corp.	Phoenix	AZ	USA
Jerome	Krinock	Radia Communications, Inc.	Sunnyvale	CA	USA
Chun-Ming	Kuo	CCL/ITRI	Hsinchu		TAIWAN
Jonathan	Labs	Wavesat Wireless Inc.	Ville St-Laurent (Montreal)	PQ	Canada
Seung-Hwan	Lee	ETRI	Daejeon		Korea
Yigal	Leiba	Runcom Technologies Ltd.	Rishon Lezion		Israel
Lingjie	Li	Redline Communications Corp.	Markham	ON	Canada
John	Liebetreu	Intel Corporation	Chandler	AZ	USA
Lars	Lindh	Nokia Research Center	Helsinki		Finland
Hui-Ling	Lou	Marvell Semiconductor	Sunnyvale	CA	USA
Heinz	Lycklama	Vectrad Networks	Arlington	WA	USA
Roger	Marks	NIST	Boulder	CO	USA
Russell	McKown	MacPhy Modems	Richardson	TX	USA
Andrew	Middleton	Airspan Communications	Uxbridge	Middlesex	UK
Apurva	Mody	Georgia Institute of Technology	Atlanta	GA	USA
James	Mollenauer	Technical Strategy Associates	Newton	MA	USA
Ronald	Murias	Wi-LAN Inc.	Calgary	AB	Canada

Robert	Nelson	MacPhy Modems	Richardson	TX	USA
Kenneth	Peirce	Malibu Networks	El Dorado Hills	CA	USA
Subbu	Ponnuswamy	SP Wireless	Folsom	CA	USA
Gene	Robinson	E. A. Robinson Consulting, Inc.	McKinney	TX	USA
Shane	Rogers	Wi-LAN Inc.	Calgary	AB	Canada
Vincentzio	Roman	Runcom Technologies Ltd.			USA
Amir	Sarajedini	BeamReach Networks, Inc.			USA
Octavian	Sarca	Redline Communications Inc.	Markham	ON	Canada
Randall	Schwartz	BeamReach Netwroks	Sunnyvale	CA	USA
Yossi	Segal	Runcom Technologies ltd	Rishon Le Zion		Israel
Radu	Selea	Redline Communications Inc.	Markham	ON	Canada
James	Simkins	Xilinx	Salt Lake City	UT	USA
Kenneth	Stanwood	Ensemble Communications	San Diego	CA	USA
Paul	Struhsaker	Texas Instruments, Inc.	Plano	TX	USA
Shawn	Taylor	Wi-LAN	Calgary	AB	Canada
William	Thomson	Comtech AHA Corp.	Pullman	WA	USA
David	Trinkwon	Medley Systems Ltd	Maidenhead	Berks	UK
Rainer	Ullmann	Wavesat Wireless Inc.	Ville St.Laurent (Montreal)	PQ	Canada
Nico	van Waes	Nokia Wireless Routers	Mountain View	CA	USA
Arthur	Wang	Proxim Corporation	Long Beach	CA	USA
Lei	Wang	Wi-LAN Inc.	Calgary	AB	Canada
Robert	Ward	SciCom, Inc.	Poway	CA	USA
Philip	Whitehead	Radiant Networks PLC	Little Chesterford	ESSEX	UK

Joanne

Wilson

ArrayComm, Inc.

Washington

DC

USA

The following lost IEEE 802.16 Membership due to failure to participate in Letter Ballots through #9. The change in membership status became effective at the start of Session #23.

Name\Given	Name\Family	Company	City	State\Province	Country
Randy	Howell	Unique Broadband Systems	Concord	ON	Canada
Panyuh	Joo	Samsung Electronics Co., Ltd.	Sungnam	KYUNGGI	Korea
Moshe	Levinson	Runcom Technologies Ltd.	Rishon Le Zion		Israel
Xiaodong (Alex)	Li	Broadstorm Telecommunications	Bellevue	WA	USA
Kim	Olszewski	DENSO International America, Inc.	Carlsbad	CA	USA
Manish	Patel	Navini Networks	Richardson	TX	USA
Stanley	Reible	Global Communications Devices, Inc.	Westford	MA	USA
Manoneet	Singh	Radia Communications, Inc.	Sunnyvale	CA	USA
Jung Je	Son	Samsung Electronics	Seoul	KYUNGKI	Korea
Stanley	Wang	BroMax Communications, Inc.	Hsinchu		TAIWAN
Vladimir	Yanover	Alvarion Ltd.	Herzlya		Israel

Attendance List: 802.16 Session #23

13-16 January 2003

This is the attendance list for Session #23 (with 74 names):

* = "Participation" Credit, based on sign-in and subject to payment of registration fee.

+ = No record of registration fee payment (as of 19 February 2003).

Name\Given	Name\Family	Company	City	State/Province	Country
*Aditya	Agrawal	Fujitsu Microelectronics America, Inc.	San Jose	CA	USA
*Baraa	Al Dabagh	Intel Corporation	San Jose	CA	USA
*Gordon	Antonello	Wi-LAN Inc.	Calgary	AB	Canada
*Eli	Avivi	WaveIP	Yokneam		Israel
*Brian	Banister	Comtech AHA	Pullman	WA	USA
Carlos	Belfiore	DMC Stratex Networks, Inc.	San Jose	CA	USA
*Anader	Benyamin-Seeyar	Advantech AMT Inc.	Dorval	PQ	Canada
*Todd	Carothers	The Telnecity Group	San Jose	CA	USA
*Dean	Chang	Aperto Networks	Milpitas	CA	USA
*Naftali	Chayat	Alvarion Ltd.	Tel Aviv		Israel
*Rémi	Chayer	Harris Corporation	Dollard-des-Ormeaux	PQ	Canada
*Sungwoo	Choi	Fujitsu Microelectronics America, Inc.	San Jose	CA	USA
*Stephen	Dick	InterDigital Communications Corp.	Melville	NY	USA
*James	Dickerman	CoWave Networks	Fremont	CA	USA
Adam	Efron	Proxim			USA
*Carl	Eklund	Nokia	Helsinki		Finland
*Marc	Engels	Loranet N.V.	Heverlee		Belgium
John	Gale	Taligo LLC			USA

*G. Jack	Garrison	Harris Corporation	New Westminster	BC	Canada
*Marianna	Goldhammer	Alvarion	Tel Aviv		Israel
*Zion	Hadad	Runcom Technologies Ltd	Rishon Le Zion		Israel
*Tomohisa	Hemmi	Hitachi Cable Ltd,	Tokyo		Japan
*Hoon	Huh	Samsung Electronics Co., Ltd.	Gyeonggi-do		Korea
Grant	Hulse	RF Magic, Inc.	San Diego	CA	USA
*Panyuh	Joo	Samsung Electronics Co., Ltd.	Sungnam	KYUNGGI	Korea
*Jacob	Jorgensen	Malibu Networks, Inc.	El Dorado Hills	CA	USA
Inchul	Kang	Cymil Communications	Los Gatos		USA
*†Phil	Kelly	BeamReach Networks, Inc.	Sunnyvale	CA	USA
Amarpal	Khanna	Agilent Technologies	Santa Clara	CA	USA
*Brian	Kiernan	InterDigital Communications Corp	King of Prussia	PA	USA
*Itzik	Kitroser	Runcom Technologies Ltd	Rishon Le Zion		Israel
*Changhoi	Koo	Samsung Electronics Co., Ltd.	Suwon-si	Gyeonggi-do	Korea
*Lalit	Kotecha	Cowave Networks	Fremont	CA	USA
*Jonathan	Labs	Wavesat Wireless Inc.	Ville St-Laurent (Montreal)	PQ	Canada
*Lingjie	Li	Redline Communications Corp.	Markham	ON	Canada
*John	Liebetreu	Intel Corporation	Chandler	AZ	USA
*Lars	Lindh	Nokia Research Center	Helsinki		Finland
+Valentino	Liva	Euramnet?			USA
*Heinz	Lycklama	Vectrad Networks	Arlington	WA	USA
*Garik	Markarian	AVALCOM-RINICOM	Southampton		UK
*Roger	Marks	NIST	Boulder	CO	USA

*Hideyuki	Matsuo	Hitachi Cable America, Inc.	San Jose	CA	USA
*Russell	McKown	MacPhy Modems	Richardson	TX	USA
*Andrew	Middleton	Airspan Communications	Uxbridge	Middlesex	UK
*Olivier	Mocquard	Thomson	Cesson-Sevigne		France
*Ronald	Murias	Wi-LAN Inc.	Calgary	AB	Canada
*Robert	Nelson	MacPhy Modems	Richardson	TX	USA
*Hiroya	Ogawa	CRL	Yokosuka		Japan
*Kenneth	Peirce	Malibu Networks	El Dorado Hills	CA	USA
*Elia	Pichhadze	AVALCOM-RINICOM	Moscow		Russia
*Kamlesh	Rath	CoWave Networks	Fremont	CA	USA
*Wagar	Saleem	Fujitsu Microelectronics America, Inc.			USA
* ⁺ Amir	Sarajedini	BeamReach Networks, Inc.			USA
*Vanni	Saviotti	STMicroelectronics	Lexington	MA	USA
*Randall	Schwartz	BeamReach Networks	Sunnyvale	CA	USA
*Yossi	Segal	Runcom Technologies Ltd	Rishon Le Zion		Israel
*Mohammad	Shakouri	Alvarion Ltd.	San Jose	CA	USA
*James	Simkins	Xilinx	Salt Lake City	UT	USA
*Kenneth	Stanwood	Ensemble Communications	San Diego	CA	USA
*Changho	Suh	Samsung Electronics Co., Ltd.	Sungnam	KYUNGGI	Korea
David	Sumi	The Telnecity Group	San Jose	Ca	USA
*Shawn	Taylor	Wi-LAN	Calgary	AB	Canada
*Jose	Tellado	Intel Corporation	San Jose	CA	USA
Paul	Thompson	Paul Thompson Associates	San Anselmo	CA	USA
William	Thomson	Comtech AHA Corp.	Pullman	WA	USA
*David	Trinkwon	Medley Systems Ltd	Maidenhead	Berks	UK

*Rainer	Ullmann	Wavesat Wireless Inc.	Ville St.Laurent (Montreal)	PQ	Canada
*Nico	van Waes	Nokia Wireless Routers	Mountain View	CA	USA
*Eyal	Verbin	Airspan Networks (Israel) Ltd.	Lod		Israel
Arthur	Wang	Proxim Corporation	Long Beach	CA	USA
*Lei	Wang	Wi-LAN Inc.	Calgary	AB	Canada
*Philip	Whitehead	Radiant Networks PLC	Little Chesterford	ESSEX	UK
Henry	Wong	SiGlobe Corporation	Kanata	Ontario	Canada
*Hidekuni	Yomo	Panasonic	Kawasaki		Japan