Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Minutes of IEEE 802.16 Session #19**
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Re:	IEEE 802.16 Session #19 Minutes (Calgary, Alberta, Canada May 20-24, 2002)
Abstract	
Purpose	To record minutes of Working Group meetings during Session #19.
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Minutes of IEEE 802.16 Session #19
IEEE 802.16 Working Group
Calgary, Alberta, Canada
20-24, May 2002

Call to Order (Opening Plenary)

The meeting was called to order at 10:10am on May 20, 2002.

The Chair, Roger Marks, presented the material in IEEE 802.16-02/23.

Quorum

Working group Letter Ballot #5 was approved at a rate of 95%.

To authorized the IEEE 802.16 Working Group to carry out Working Group business at Session #19, with or without a formal quorum, and in particular to authorize the Working Group Closing Plenary, on 24 May 2002, to act, with a 75% majority of those members present, to adopt drafts and initiate Working Group Letter Ballots on those drafts under PARs 802.16a and 802.16c.

Agenda

The agenda for the opening plenary (http://www.wirelessman.org/meetings/mtg19/opening.html) was reviewed.

Motion 1 Wayne Hunter, to approve opening plenary agenda as presented, 2nd Anader Benyamin-Seeyar.
Motion 1 carries by unanimous voice vote.

IEEE 802.16 Working Group Membership

Current membership count is 120. 10 individuals lost membership following Letter Ballot #5.

IEEE 802-SA Standards Board Bylaws

IEEE-SA Standards Board bylaws have changed in the area of patents.

> IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the paten holder or application with respect to patents essential for compliance with both <u>mandatory and option portions</u> of the standard.

Minutes from Session #18

Motion 2 Anader Benyamin-Seeyar, to approve minutes of Session #18 (802.16-02/16) and decisions therein, 2nd Shawn Taylor.
David Trinkwon requested a note in the minutes stating that, under Motion #14, the database revision, as released with Editor s notes, was r13 vs. r12. This note, along with a document number correction, was made.

Motion 2 approved minutes as amended (802.16-02/16r1) by unanimous voice vote.

Schedule for the Week

There was some concern expressed over the schedule for the week due to the fact that there are parallel sessions between TGa and the MBWA study group. Also, many members are interesting in meeting on Monday evening.

As a result, TGa afternoon meeting was postponed until 7:30pm on 20 May 2002.

News from 802 SEC

- GetIEEE802 may be cancelled
- IEEE-SA board of Governors will collocate at July Plenary
- New 802.18 Regulatory TAG, Interim Chair, Carl Stevenson
- 802 Coexistence Study Group, Chair, Jim Lansford
- 802 Publicity, Roger Marks is the point of contact

IEEE Standards Department Issues

IEEE 802 Rule Change Ballots
- Permanent Friday SEC times 1-6pm
- Add a second SEC vice chair
- Permit email voting in WG

Roger expects to vote no on these issues and would like to hear some working group recommendations on this. A meeting will be held Thursday evening at 7:30 pm to discuss this.

Task Group 2 Report

To date, many simulations are complete.

The primary concern of the group is that there is no input on 2.5 GHz. This creates a significant issue which may result in a PAR change to delete the reference to MMDS/ITFS, unless contributions arrive soon.

The current target is for the working document to be turned into a formal draft with WG ballot planned for July.

Task Group 1

IEEE Standard 802.16-2001, published on 8 April 2002. Many editorial errors were fixed. The standard is now available for sale. More errata can be found at http://ieee802.org/16/tg1/errata.html.

Task Group c

Roger Marks reported for the absent Ken Stanwood (TGc Chair)
PAR 802.16c approved on 9 May 2002.

Agenda Issues
- Review proposed Profiles portion of draft
- Review submitted errata for draft
- Prepare to ask on Friday to open WG Letter Ballot
- Review another PAR 1802.16.1 for 10-66 GHz PICS proforma; recommend action on Friday.

Task Group a Report

WG Letter Ballot #4 was approved in April. As a result, D3 was forwarded to Executive Committee for Sponsor Ballot. The SEC rejected the motion for Sponsor Ballot. Issues came up and strong consensus emerged that the document was not ready for sponsor ballot.

802 vice chair — shouldn t go to Sponsor Ballot with a document that you aren t willing to stand behind being published as a Standard.

SEC Issues

- TBDs — document must be technically complete
- Dismissive rebuttals
  - Do them right the next time
  - If new WG Letter Ballot starts
    - Issue letter to address LB#4 Disapproves
    - Chair s suggestion in IEEE 802.16-02/53
- 802.11a coexistence concerns
  - Asked 802.11 to bring issues to WG Letter Ballot
    - Coexistence TG and SEC members seem to agree

To address the rebuttal issues, Roger Marks would like the working group to write a letter to each disapprove voter to provide the current status. This can be undertaken when the document is ready to be back to the SEC.

For this meeting, TGa received 19 contributions and 127 comments. Bulk of the comments are PHY or joint PHY/MAC. Entire week will be joint PHY/MAC meetings. The goal is to have a document at the end of the week for ballot.

802.16's Mobile Broadband Wireless Access (MBWA) Study Group

Mark Klerer, Chair

Chartered 15 March-12 July 2002

The study group is chartered to draft a PAR and make a recommendation on the placement of the project within IEEE 802 and/or existing working groups.

Week's Agenda

All TGa meetings will be joint MAC and PHY.

The MBWA Study Group would like to complete sessions by Tuesday evening.

A number of straw poles were taken regarding the following questions.
- How many people would like to have some session time this evening? 39-3
- How many people would like to have some session time this evening for TGa? 16
- How many people would like to have session time this evening for Mobile? 41

Motion David Trinkwon to have the two chairs of the TGa and MBWA to work out the agenda — not entertained by chair Roger Marks

Another straw poll was taken to cancel TGa Monday afternoon session. The grouped favored the plan 50-4.

The TGa opening meeting was postponed until 7:30pm to 9pm Monday.

T1P1 Liaison Letter

A letter from Committee T1P1 (L802.16-02/11) was reviewed.

MBWA is addressing issues already pursued by other global standards organizations. Gary Jones, former chair of T1P1, gave a brief presentation covering the current activities in T1P1.

T1P1 had a meeting to discuss the formation of the MBWA study group. 3GPP already contains a number of member companies standardizing radio systems for radio mobility. 3GPP constantly pursues higher data rate applications. In a most recent workshop, the group determined that they should incorporate additional access methods, such as 802.11, into the core network. Started work on the use of OFDM technologies and liaison issues with 802.11.

Concern is that MBWA may result in duplicative and counterproductive effort. Since there are already efforts in this space, a new standards effort is not required. However, if the MBWA study group PAR is approved, the two groups should coordinate.

During T1P1 discussion, T1P1 wasn t concerned that this work would not be valuable. The main concern was to have this kind of work located in one place so that this would occur at one time.

Roger Marks tasked Study Group to draft a reply letter to T1P1 for approval by the working group.

ITU-R Report

A report from Jose Costa regarding ITU-R is located at
 http://www.itu.int/ITU-R/study-groups/was/docs/132e.zip.

ETSI BRAN HIPERMAN Liaison Reports

Marianna Goldhammer presented the results of the last BRAN HIPERMAN meeting. A liaison letter is located
in document http://www.wirelessman.org/liaison/docs/L80216-02_10.pdf.

ETSI BRAN HIPERMAN would like to have an official grant letter for copyright from IEEE 802.16.

A number of alternations were made to P802.16a/D3 by HIPERMAN, and the group requested that TGa would
incorporate these into the next draft.

A document was submitted to ERM and CEPT to push an allocation of 5.8 GHz License-Exempt FWA
spectrum.

802.11 Report on Coexistence Issues

Mika Kasslin is the 802.16 liaison to 802.11. See http://www.wirelessman.org/liaison/docs/80211-02_249r1.pdf
and http://www.wirelessman.org/liaison/docs/80211-02_364r0.pdf.
After presenting to the 802.11 group at their May interim Session, there were no questions for Mika regarding
coexistence. Only a few people are concerned about this but have not submitted comments to the TGa draft.

Future Sessions

Session #21 will be held in Vancouver, BC, Canada on July 2002.

At this time, there is a good proposal from Remi Chayer to have Session #22 in Montreal. A proposal will be
made at the closing plenary.

Members of the MBWA Study Group raised an issue of scheduling during the week of 23-27 September 2002
due to conflict with an ITU-R session.

802.18 Documents

Motion 3 Carl Eklund, IEEE 802.16 working group approves the issue of 802.18-02/002r0 and 802.18-02/005r0
from the IEEE 802.18 TAG, 2nd Mika Kasslin
Motion 3 carries by unanimous voice vote.

Closing Agenda

Motion 4 Malik Audeh, to adjourn the meeting, 2nd Anader Benyamin-Seeyar.
Motion 4 carries by unanimous voice vote.
Meeting was adjourned at 1:24pm.

Call to Order (Midweek Plenary)

The meeting was called to order at 8:05 am

Agenda Review

Motion 5 Brian Kiernan, to adopt the agenda as presented 2nd Wayne Hunter.
Motion 5 carries by unanimous voice vote.

Mobile Broadband Wireless Access Study Group (MBWA)

The group reviewed 10 different contributions and created some base text for the scope of the proposed project.
 See document 802.16sgm-02/02.

In the July 2002 Plenary meeting, the group will continue work to develop a draft PAR and five criteria. The Chair will attempt to stimulate discussion via the email reflector.

Liaison to T1P1

A draft letter liaison letter to T1P1 was reviewed and modified by the working group.

Motion 6 Reza Arefi, to forward the liaison letter, as modified, to T1P1, 2nd Remi Chayer.
Motion 6 carries by unanimous voice vote.

Issues in Preparation for Closing Plenary

The closing plenary agenda was reviewed and there were no objections.

Thursday night, 23 May 2002, there will be a meeting for those interested in discussing the SEC Rules change ballots.

Motion 6 Anader Benyamin-Seeyar, to adjourn the meeting, 2nd Remi Chayer
Motion 6 carries by unanimous voice vote.

The meeting was adjourned at 8:55am 22, May 2002.

Call to Order (Closing Plenary)

The meeting was called to order at 8:35am on 24 May 2002.

Agenda Approval

Motion 7 Reza Arefi, to approve the agenda as presented, 2nd Lars Lindh.
Motion 7 carries by unanimous voice vote.

TG2 Report

Phil Whitehead presented the TG2 closing report.

The group made good progress. However, the current conclusion is that the group needs to abandon the 2.5 GHz work which would require a PAR change and will be decided at the next meeting in July 2002. Without 2.5 GHz work, Phil Whitehead is confident that the group can complete the work on schedule.

TGc Report

Ken Stanwood presented the TGc closing report.

Purpose of this group is to create an amendment to the document to provide system profiles and correct various document errata to IEEE Standard 802.16-2001.

Motion 8: "To adopt P802.16c/D1 as a Working Group Draft Standard and initiate Working Group Letter Ballot seeking to forward it for LMSC sponsor ballot".
Note: see schedule <http://ieee802.org/16/tgc/schedule.html>
Motion 8 carries 20-0.

Motion 9: "To forward the draft PAR in IEEE C802.16c-02/05r1 for SEC approval"
Note: 10-66 GHz PICS proforma PAR [P1802.16.1], to be submitted by 7 June (at least 30 days prior to July 802 Plenary)

Motion 9 carries 24-0

TGa Report

Brian Kiernan presented the TGa closing report.

Motion 10: "To issue P802.16a/D4 based on P802.16/D3, as updated by 80216a-02/06r2, and to initiate a Working Group Letter Ballot seeking to forward said document for LMSC sponsor ballot."
Note: See schedule <http://ieee802.org/16/tga/schedule.html>
Motion 10 carries 38-0.

The schedule for this ballot is tight, but there is sufficient time if D4 is available by 29 May.

SEC Ballot Issues

Roger Marks would like to have a working group consensus on the issue of the timing of SEC and WG Closing Plenaries.

Motion 11: Naftali Chayer "To urge that SEC meetings be concluded by noon on Friday of each 802 Plenary week in order to ensure that SEC meetings remain open in practice as well as in theory, 2nd Brian Kiernan.
Motion 11 carries 30-0.

Future Sessions

Session #20

Session #20 will be held on July 8-12, 2002 at the Hyatt Regency, Vancouver, British Columbia Canada.

A proposal was made to have joint TGa (PHY/MAC) meetings on Wednesday and Thursday and separate PHY and MAC meetings on Tuesday at session #20 in July. This was approved with no dissenting voice votes.

A proposal was made to move the Working Group Closing Plenary at Session #20 to Thursday night 7:30-10pm. This was approved with no dissenting voice votes.

Session #22

Session #22 will be held on November 11-15, 2002 at Hyatt Regency Kauai, Koloa, Hawaii, USA.

Session #21

Roger Marks would like to focus on 23-27 September 2002. There were a number of proposals presented.

Remi Chayer presented a proposal for Montreal, Canada. The corporate hosts would be Harris and InterDigital.

Panyuh Joo presented a proposal for Cheju Island in the southern part of Korea about 280 miles (451km) from Seoul.

Marianna Goldhammer presented a proposal for Bucharest, Romania.

A straw poll was held regarding each of the proposals

Montreal, Canada 16
Cheju Island, Korea 16
Bucharest, Romania 1

Motion 12 Paul Struhsaker, to make the decision on the September meeting site via a straw poll of all those present (members and nonmembers alike), 2nd Lei Wang

Motion 12 carries 30-0.
  David Trinkwon sought to make a motion for extending the straw poll to include choosing Montreal for September and Cheju for January. Roger Marks rejected this motion as being incompatible with Motion #12. David Trinkwon disagreed with Roger's ruling.

Straw Poll between Montreal Canada and Cheju Island, Korea

Montreal, Canada 16
Cheju Island, Korea 27

This resulted in the decision to hold Session #21 in Cheju Island, Korea.

Liaison

T1P1

A liaison letter to T1P1 was reviewed. There were a few editorial changes as compared to the document reviewed at the Midweek Plenary. There were no objections to forwarding this letter (IEEE L802.16-02/14) to T1P1.

ETSI BRAN

A liaison letter to ETSI BRAN was reviewed (L802.16-02/15). Some edits were made.

Motion 13 Marianna Goldhammer, to forward IEEE L802.16-02/15r1 to ETSI BRAN 2nd David Trinkwon.
Friendly Amendment to remove the last sentence of item 3, not accepted
    Motion to Amend 13a Anader Benyamin-Seeyar to remove the last sentence of item 3, 2nd Zion Hadad
    Motion to Amend 13a Vote tied 11-11, Chair breaks the tie by voting no on the motion to amend based on the fact that TGa already approved this document.
Motion 13 carries by unanimous voice vote.

Publicity

Technical Backgrounder

Motion 14 Dean Chang, to release this press background document 12r2 to the press, 2nd Anader Benyamin-Seeyar
Friendly amendment Nico van Waes to change PMP to wireless access systems in the first paragraph, accepted.
Call the question by David Trinkwon
Motion 14 carries as amended by unanimous voice vote. The approved version is 802.16-02/12r3.

Session #19 Report

The Chair proposed a draft.
The group added a sentence regarding adaptive antenna systems.
A section was added for the MBWA group.

Proposal is to allow Roger Marks to edit the Session #19 report. This was accepted with no dissenting voice votes.

New Business

The Chair presented a draft Walt Roehr sympathy letter. Without objection, it was approved.
Roger Marks would like to issue a letter to Wi-LAN for sponsoring Session #19. Without objection, he was approved to do so.

Closing

Motion 15 Ronald Murias, to adjourn the meeting, 2nd Bob Nelson
Motion 15 carries by unanimous voice vote.

The session was adjourned at 11:38am 24 May 2002.