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<th>Project</th>
<th>IEEE 802.16 Broadband Wireless Access Working Group [<a href="http://ieee802.org/16">http://ieee802.org/16</a>]</th>
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<tr>
<td>Title</td>
<td>IEEE 802.16 Working Group Session #18 Minutes</td>
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<tr>
<td>Date Submitted</td>
<td>2002-03-15</td>
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<td>Source(s)</td>
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<td>Re:</td>
<td>IEEE 802.16 Session #18 Minutes (St. Louis, Missouri March 11-15, 2002)</td>
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<tr>
<td>Abstract</td>
<td>To record meeting minutes.</td>
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<td>Purpose</td>
<td>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.</td>
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Minutes of IEEE 802.16 Session #18
IEEE 802.16 Working Group
St. Louis, Missouri, USA
11-15, March 2002

Call to Order (Opening Plenary)
The meeting was called to order at 1:07pm.

Agenda
The agenda for the opening plenary (http://www.wirelessman.org/meetings/mtg18/opening.html) was reviewed.

Motion 1 Anader Benyamin-Seeyar, to approve Opening Plenary agenda as presented, 2nd Paul Struhsaker
Motion 1 carries by unanimous voice vote.

Minutes from Session #17
Motion 2 Carl Eklund, to approve Minutes of Session #17 (802.16-02/05) and decisions therein, 2nd Brian Kiernan.
Motion 2 carries by unanimous voice vote.

Chair’s Report

News from 802 SEC
There was a debate about when to hold the SEC closing meetings. Currently the rules state that these should be held on Thursday before midnight. However, the SEC closing meeting has been held on Friday for some time.

IEEE Standards Department Issues
802 voted to withdraw financial support of the GetIEEE802 program after the SA Board of Governors unilaterally (and before the expiration of the one-year agreement with IEEE 802) extended the delay for entry into the program from 6 months to 12 months following publication. The delay became effective on 1 March 2002, which forces an extra six-month delay in the free availability of IEEE Std 802.16. Negotiations may begin on revising the program on its original terms.

IEEE 802 Rule Change Issues
• Permanent Friday SEC meeting: in discussion
• Coexistence in PAR: Some progress
• Creation of Standing Committees: going nowhere/dead
• Regulatory: probably leading to TAG

IEEE 802 Tutorials
Two of them may be relevant to 802.16.
– Gigabit Radio
  • possible 802.16 Study Group
– Mobile Broadband Wireless Access
  • proposed 802 ExCom Study Group

Proposal for new PAR
A proposal was made for a new PAR (P802.16c) to develop profiles for IEEE Std 802.16 (10-66 GHz). The purpose of this part is “to aid the development of interoperable systems by defining and naming a set of system profiles to which manufacturers can test interoperability.”
Task Group 2 Report
Since Session #17, the group completed some new simulations for 3.5 GHz and 10.5 GHz bands.

At Session #18, the group will review new simulation results and develop a new revision of the working document.

The key issue is lack of input at 2.5 GHz.

Task Group a Report
Recirculation Ballot #4a (on Draft 2) was held on 8-25 Feb 2002. The results were 85 approve and 21 disapprove.

The goal for this week is to resolve all comments and to forward Draft 3 to 802 SEC for Sponsor Ballot.

ETSI BRAN HIPERMAN Liaison Reports
Liaison letters from ETSI BRAN to IEEE 802.16 and IEEE 802 were reviewed. The reports require a response which will be drafted for review.

WiMAX Liaison Letter
A letter was received from the Worldwide Interoperability for Microwave Access (WiMAX) Forum. The goal of this organization is to ensure interoperability between wireless MAN products that conform to the IEEE Std 802.16. In addition, the group may draft documents to be submitted to IEEE 802.16 in future standards work. A meeting is scheduled this week to discuss the possibility of expanding the activities to 802.16a as well.

Future Sessions
Session #19 will be held in Calgary on 20-24 May 2002. Shawn Taylor will host.

Elections
Elections were held for the Chair and Vice Chair positions of the Working Group. The election was by written ballot (IEEE 802.16-02/08) following the procedure of IEEE 802.16-02/09. Results will be available after the meeting.

The ballot included the following candidates:
    Working Group Chair: Roger Marks
    Working Group Vice Chair: Naftali Chayat, Carl Eklund, and Paul Struhsaker

No nominations were received from the floor. Each of the candidates spoke briefly, with the exception of Mr. Chayat, who was delayed and unable to attend. His remarks received by email were read.

Motion 3 Gene Robinson, to adjourn the meeting, 2nd Anader Benyamin-Seeyar.
Motion 3 carries by unanimous voice vote.

The meeting was adjourned at 2:50pm 11, March 2002.

Call to Order (Closing Plenary)
The meeting was called to order at 9:30am on 15 March 2002.

Agenda
Motion 4 Anader Benyamin-Seeyar to approve the agenda as amended, 2nd Brian Kiernan
Motion 4 carries by unanimous voice vote
Working Group Vice Chair Runoff Election

A runoff election was held for the Vice Chair position using a written ballot (IEEE 802.16-02/08r1). The two runoff candidates were Carl Eklund and Paul Struhsaker.

The Working Group elected Paul Struhsaker as Working Group Vice Chair. This result was subject to approval by 802 SEC. [The SEC later approved 802.16’s elected Chair and Vice Chair.]

Task Group 1 Follow up

IEEE 802.16-02/15 was developed as an interpretation of IEEE Std 802.16. This document records a number of items explaining the problem and solution for each.

Motion 5 Carl Eklund, to approve the Interpretation of IEEE Std 802.16 (IEEE 802.16-02/15), 2nd Brian Kiernan. Motion 5 Carries by unanimous voice vote.

Motion 6 Carl Eklund, to forward to SEC PAR 802.16a for amendment to add 10-66 GHz profiles in Clause 12 (IEEE 802.16-02/11r1), 2nd Zion Hadad. Motion 6 carries 31-1-2.

Task Group a

Task Group A Chair, Brian Kiernan, reviewed the closing report (IEEE 802.16a-02/04). The Task Group passed a motion to forward the following motion to the Closing Working Group Plenary:

Motion 7 To authorize a confirmation ballot of P802.16a/D3 and forward it for LMSC Sponsor Ballot pending successful confirmation ballot. Motion 7 carries 32-1-2.

Task Group 2

Phil Whitehead presented 802.16.2a-02/06. Task Group 2 is on track except for information in 2.5 GHz band. In order to keep on schedule, TG2 therefore plans to leave 2.5 GHz work out of the draft. No objections were raised. Phil suggested that a PAR amendment might me required. Marks said that a PAR change is not necessary to narrow the scope.

Propagation information for non-LOS paths was presented to TGa at last meeting. Feedback is sought as soon as possible. TG2 would like a joint session with TGa at Session #19 to address the issue.

Mobile Broadband Wireless Access Study Group

Marks discussed the Monday 802 and Tuesday Call for Interest on Mobile Broadband Wireless Access. At the Call for Interest, the overlap of the project with 802.16 was emphasized by many participants. As a result, the decision was made there to pursue a Study Group within 802.16 instead of at the SEC level. Marks presented IEEE 802.16-02/14, with a proposed motion of Mark Klerer to form a new 802.16 WG Study Group on Mobile Broadband Wireless Access.

Motion 8 Marianna Goldhammer, To Establish an IEEE 802.16 Working Group Study Group on Mobile Broadband Wireless Access Networks, 2nd Shawn Taylor. Friendly Amendment to Motion 8 Randall Schwartz, to replace “mobile” with “nomadic/pedestrian.” The Friendly Amendment was not accepted by Marianna Goldhammer.

Motion to Amend 8a – Randall Schwartz - To replace “mobile” with “nomadic/pedestrian,” 2nd Carl Eklund. Friendly Amendment David Trinkwon: and delete “at vehicular speeds.” The Friendly Amendment was accepted. Friendly Amendment Marianna Goldhammer to change the motion to, “Motion to enlarge the scope of 802.16a PAR – Enhance the 802.16a standard to support fixed, nomadic and low speed mobile applications using the exiting PHY modes.”
This Friendly Amendment was not accepted.
The question was called by Paul Struhsaker, 2nd Carl Eklund.
**Motion to Amend 8a** fails 16-24.

**Motion to Amend 8b** Itzik Kitroser, to table this discussion on the current motion pending a new motion, 2nd Paul Struhsaker.
**Motion to Amend 8b** Fails 12-20

**Motion to Amend 8c** Naftali Chayat, Change 802.16 WSG to 802 ESG, 2nd Tal Kaitz
Change 802.16 WSG to 802 ESG
The question was called by Carl Eklund, 2nd Paul Struhsaker.
Call the question carries by unanimous voice vote
**Motion to Amend 8c** Fails 3-29

Friendly Amendment Randall Schwartz, to replace “mobile with mobile/nomadic.”
This was rejected by Marianna Goldhammer
The question was called by Carl Eklund, 2nd Joo Panyuh.
Call the question carries 27-2
**Motion 8** Carries 29-8 as follows, “To Establish an IEEE 802.16 Working Group Study Group on Mobile Broadband Wireless Access Networks.”

**Motion 9** Brian Kiernan, to publish a Call for Input to the Mobile Broadband Wireless Access Study Group, 2nd Shawn Taylor.
**Motion 9** carries 23-7.

Roger Marks appoints Mark Klerer as chair of the Mobile Broadband Wireless Access Study Group. The first meeting of this study group will be held at the interim meeting in Calgary.

**Future Sessions**
Remi Chayer stated that a possible location for the September interim meeting is Montreal.

The next meeting, Session #19, will be held in Calgary. The start of the week is an important holiday. Also, the attendance will be hard to predict due to the MBWA Study Group. Therefore, everyone is encouraged to register as early as possible.

**802 Coexistence and Regulatory Issues**
Carl Stevenson presented the closing report (IEEE 802.RR-02/048r0) of the regulatory committee.

**Motion 10** Heinz Lycklama,
1) To request IEEE 802 SEC to establish a Radio Regulatory TAG
2) To grant attendance credit to WG members attend the RR TAG
2nd Brian Kiernan.
**Motion 10** carries by unanimous voice vote.

**Motion 11** Heinz Lycklama
To request SEC approval to file the contents of RR-02/043r0 with FCC via the ECFS and to mail required service copies to other commenters, 2nd Tal Kaitz.
**Motion 11** fails 10-13.

Roger Marks requested that members of the Working Group that objected to Motion 11 would draft a rebuttal. Nico van Waes submitted a draft to Roger. The changes were: (a) changing “EIRP” to “power” in section 22; (b) deleting section 24 (“Concerning the WCA’s suggested EIRP limits in the proposed band, we feel, for reasons based on considerations of spectrum sharing with incumbent primary users, that it is not appropriate to support the 1 Watt transmitter powers and higher EIRPs for point-to-point systems that are currently allowed in the 5725-5825
MHz band. We believe that it is more appropriate to use the emission requirements currently applied to the U-NII 5250-5350 MHz band.

**Motion 12** Paul Struhsaker, to approve forwarding the comments developed by Nico van Waes to the SEC, 2nd Heinz Lycklama.
**Motion 12** carries by unanimous voice vote.

**ETSI BRAN Liaison Letter**

A liaison letter to ETSI BRAN was completed.

**Motion 13** Marianna Goldhammer to forward a draft liaison letter IEEE L802.16-02/08 to ETSI BRAN, subject to Chair’s editorial revision. 2nd Naftali Chayat.
**Motion 13** carries by unanimous voice vote.

**Publicity**

There were no objections from the Working Group to allow the Chair to complete the Session #18 Report without review.

The Working Group quickly reviewed the IEEE 802.16 WirelessMAN press backgrounder presented by the Publicity Chair, Dean Chang. The purpose of this document is to provide background information to press regarding the standards developed by IEEE 802.16. The other Working Groups within 802 will develop similar backgounders.

**New Business**

It was noted by David Trinkwon that a few comments were missed by TGa in the comment resolution process. The Working Group resolved the comments, which led to the following Working Group motion:

**Motion 14** To accept the comment database 80216-01/01r12.
**Motion 14** carries by unanimous voice vote.

There are approximately 17 disapprove votes regarding forward D3 to sponsor ballot. Roger Marks stated that he will not request conditional approval for sponsor ballot from the SEC later today. There were no objections.

**Motion 15** Marianna Goldhammer, Enhance the 802.16a PAR to support fixed, nomadic and low speed mobile applications, using the existing MAC and PHY modes, 2nd Itzik Kitroser.

The Chair, Roger Marks, rules Motion 15 out of order.

**Motion 16** Gene Robinson, To adjourn the meeting, 2nd Bob Nelson.
**Motion 16** carries by unanimous voice vote.

The meeting was adjourned at 12:15pm on 15, March 2002.