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Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Minutes of IEEE 802.16 Session #49</b>	
Date Submitted	<b>2007-07-06</b>	
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Re:	IEEE 802.16 Session #49 Minutes (Portland, Oregon, USA)	
Purpose	To record the minutes of the IEEE 802.16 Working Group Opening and Closing Plenary meetings at Session #49	
Release	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.	
Patent Policy and Procedures	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: < <a href="http://standards.ieee.org/guides/bylaws/sect6-7.html#6">http://standards.ieee.org/guides/bylaws/sect6-7.html#6</a> > and < <a href="http://standards.ieee.org/guides/opman/sect6.html#6.3">http://standards.ieee.org/guides/opman/sect6.html#6.3</a> >. Further information is located at < <a href="http://standards.ieee.org/board/pat/pat-material.html">http://standards.ieee.org/board/pat/pat-material.html</a> > and < <a href="http://standards.ieee.org/board/pat">http://standards.ieee.org/board/pat</a> >.	

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## Minutes of IEEE 802.16 Session #49

*IEEE 802.16 Working Group*

*Portland, Oregon, USA*

*7 – 10 May 2007*

### IEEE 802.16 Session #49 Opening Plenary Meeting

Monday 7 May 2007

#### Call to Order

The meeting was called to order by Working Group (WG) Chair, Roger Marks, at 1:20 pm. He welcomed attendees to Session #49 of the IEEE 802.16 WG. Roger provided the URL for the opening plenary agenda <<http://iee802.org/16/meetings/mtg49/opening.html>>. Roger introduced himself, Working Group (WG) Vice Chair Jose Puthenkulam, and Secretary Peiying Zhu.

Roger introduced meeting host Jose Puthenkulam, who then introduced the event hosting staff. Jennifer Reyes explained logistical and registration issues.

Roger outlined networking issues. He instructed that all attendees must have a clearly visible name badge while in the meeting areas and during the social.

#### Membership and Voting

The lists of WG Members, Potential Members, Members in Peril, and Observers were explained by the Chair. Voting tokens were distributed to members.

The electronic attendance sign-in log procedure was explained by Roger. There are eight attendance intervals [Mon pm; Tue am; Tue pm; Wed am; Wed pm; Thu am; Thu pm; Thu evening], so the 75% "Participation" Requirement is six intervals. Roger emphasised the importance of using one's correct name in the attendance logs in order to receive the attendance credits. The member ID is required for the electronic log, but first-time attendees were provided a temporary ID. The interval is based on clock time, with slight grace periods. The on-line database is the official record; do not request exceptions.

Roger then reviewed the agenda and asked for comments or concerns on the agenda. No comments were received.

**Motion (at 1:47pm):** To approve the Opening Plenary Meeting Agenda on the 802.16 web site <<http://iee802.org/16/meetings/mtg49/opening.html>>, proposed by Mariana Goldhamer, seconded by Scott Henderson, approved by unanimous voice vote.

#### Approvals

Roger reviewed the draft minutes of Session #48 (IEEE 802.16-07/023). Roger pointed out there is a discrepancy in the number (266) of WG members recorded in the minutes and the actual number (267) of members due to one member added after the minutes were recorded. Roger recommended to correct the list recorded in the minutes and generate a new revision of the minutes (IEEE 802.16-07/023r1). Roger asked for comments. No comments were received.

**Motion (at 1:49pm):** To approve the minutes of Session #47 (IEEE 802.16-07/023r1), proposed by Brian Kiernan, seconded by Mitsuo Nohara, motion was approved by unanimous voice vote.

### **Chair's Status Report**

See Chair's slides (IEEE 802.16-07/031).

### **Patent Policy and Related Announcements**

Roger had announced the new patent, effective 1 May, on the 802.16 reflector policy <<http://iee802.org/16/arc/802-16list2/msg04266.html>>. Detailed policy materials are available at <<http://standards.ieee.org/board/pat/pat-material.html>>.

The WG Chair presented Slides #1-#5 of the IEEE-SA's Patent Slides for Standards Development Meetings <<http://standards.ieee.org/board/pat/pat-slideset.ppt>>.

An opportunity was provided "for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard."

Ayman Naguib of Qualcomm made the following statement: "Qualcomm may have some IP, that would impact the practice of the standard and we would comply with the IEEE patent policy in a timely fashion if required to do so."

There were no other responses.

Brian Kiernan asked for a clarification if the same slide set should be shown in each TG meeting. Roger said that each TG Chair shall present Slides #1-5 at the beginning of each TG's first meeting of Session #49.

Roger commented that the cover sheet of new contributions will need to be changed from now on. Roger will post a new cover sheet (note: see <<http://iee802.org/16/submit.html>>).

### **IEEE 802 P&P issues**

Roger highlighted parts of the IEEE 802 Policies and Procedures (P&P) as shown in the opening slides in document IEEE 80216-07/031, in particular, related to WG operation, Chair's Role, and working group domination. Rules on copyrights, contribution procedures, and restrictive notices were also mentioned.

### **IEEE-SA News**

Roger informed the group on the formation of an IEEE 802.11 Study Group to examine issues related to delivery of Video Transport Streams (VTS) over IEEE 802.11 (see <<http://iee802.org/16/arc/802-16list2/msg04221.html>>). Roger commented on the collaboration between 802.11 and the 802.1 AVB Task Group. Roger requested the NetMan TG to review this, discuss if there is a need for a similar relationship between 802.16 and 802.1, and to make a recommendation in the closing plenary.

### **Operator ID/ Registration Authority Report**

Roger informed the WG that IEEE Registration Authority has opened the IEEE

802.16 Operator ID (OpID) Registry:

<[https://standards.ieee.org/regauth/BOPID/IEEERegistrationAuthority\\_BOPID.html](https://standards.ieee.org/regauth/BOPID/IEEERegistrationAuthority_BOPID.html)>.

Roger cautioned that the posted material is not fully correct yet. Roger asked for comments/discussion. No comments were received. Roger thanked the ad-hoc Chair, Scott Probasco, for his hard work on this topic. Scott asked people to review the web site and reported to him any issues. The WG gave a round of applause to Scott.

### **Review of Session #48 Report**

Roger reviewed the Session #48 Report and encouraged people to read it

<<http://ieee802.org/16/meetings/mtg48/report.html>> for details. He highlighted the item on “ITU-R Liaison activities”.

### **Session #49 Document Guide**

Roger reviewed the Session #49 Document Guide <<http://ieee802.org/16/meetings/mtg49/docs.html>>.

### **Schedule for the Week**

The schedule for the week was presented <<http://dot16.org/calendar/week.php?date=20070507>>.

### **NetMan Task Group**

The NetMan TG draft agenda for the week was presented by the TG Chair Phil Barber (document IEEE 802.16netman-07/009). P802.16g/D9 completed Sponsor Ballot on the third recirculation and was submitted to RevCom,.

P802.16i/D2 was reviewed in WG Letter Ballot Recirc #25a. The Ballot closed on Sunday April 29 AOE. The reply comments were due today.

Phil mentioned several potential motions in consideration for the closing plenary.

Phil asked for comments and questions on the schedule.

Roger informed the WG that 802.16g/D9 is on the RevCom approval agenda for 6 June 2007. Once it is approved, it is expected that 802.16g/D9 will be included in the revision draft P802.16Rev2.

### **License-Exempt Task Group**

The LE TG Chair, Mariana Goldhamer, reviewed the status of WG Letter Ballot Recirculation #24a and reported the ad hoc activities between meetings. She then presented the plan for the week (Document IEEE 802.16h-07/009).

### **Relay Task Group**

The Relay Task Group draft agenda for the week was presented by the TG Chair Mitsuo Nohara (IEEE 802.16j-07/015). Nohara-san reviewed the status of P802.16j, statistics of comments and contributions received for this Session, ad hoc activities, the plan for moving forward, and the TG’s expected Closing Plenary motions.

Revision 3 of the TG baseline document was subjected to review, and comment resolution will take place this Week.

## Maintenance Task Group

The Maintenance TG Chair, Jonathan Labs, presented the opening report (document IEEE 802.16maint-07/014r2). Jon reviewed two motions passed in the Closing Plenary of Session #48, progress on the Cor2 draft since Session #48, and the status of WG Letter Ballot Recirculation #23b.

Jon presented the progress on the revision project; in particular, the revision PAR was approved by the IEEE-SA Standards Board on 22 March. The consolidated document P802.16Rev2/D0, as developed by a professional editor, was the subject of a call for editorial comments and call for reply comments. During that time, it was also reviewed by a volunteer review team chaired by Itzik Kitroser. Jon thanked the review team and commented that the security section (Clause 7) was not reviewed by the team.

The team marked five comments regarding P802.16Rev2/D0 as proposing technical remedies to editorial problems. Jon planned to defer resolution of these comments.

Discussion took place regarding the incorporation of the 802.16g, 802.16i, and 802.16/Cor2 drafts into the revision draft. Concern was expressed that care should be taken regarding the incorporation of the 802.16/Cor2 material, especially since it has not yet been through Sponsor Ballot. The suggestion was made that it would be important to show the Cor2 materials as tracked edits to the consolidation when initially presented. It was also suggested that the Cor2 material not be introduced at the same time as other material, such as 802.16g.

The WG Chair commented that the revision is a maintenance document and the result must be completely clean.

## TGm

The TGm Chair, Brian Kiernan presented the opening report (document C802.16m-07/017r1). He then presented the plan for the week.

There was a question on whether further input can be provided for the IEEE 802 contribution into ITU-R WP 8F on IMT-Advanced requirements. Brian answered that the contribution is in EC Ballot and that the timing is not right for further input.

## Charge to Task Groups: Actions and Reporting

The TG Chairs were asked to ensure that minutes are recorded, previous minutes are approved, start and finish times are recorded for their meetings, motions are posted in advance, and motion times are recorded.

Roger reminded the TG Chairs to show the Patent Policy Slides <<http://standards.ieee.org/board/pat/pat-slideset.ppt>> in each Task Group and record in the minutes its presentation and any responses.

## Security

LCD projectors are managed by VeriLAN. When your meeting has completed for the day or you need your room secure for lunch/dinner break, inform the registration desk.

*A twelve-minute recess was taken.*

## **Liaison**

Roger updated the status on the IEEE 802 Contribution to ITU-R WP 8F regarding IMT-Advanced Requirements. Roger reported the activities related to the documents. Currently the document is under 802 EC Ballot <<http://ieee802.org/secmail/msg09282.html>>. Roger commented that there is little possibility to make further changes to the document at this stage.

Roger asked if anyone has concerns on the document. No objections or concerns were raised.

### ITU-R Liaison Group: IP-OFDMA Issues

José Costa highlighted the activities from various evaluation groups on the IP-OFDMA proposal.

- [IEEE L802.16-07/026](#)  
Comments/Questions/Answers from Canadian Evaluation Group on the IP-OFDMA submission to ITU-R (2007-04-02)
- [IEEE L802.16-07/025](#)  
TTA EG Liaison Statement to other Evaluation Groups and Proponent (2007-04-16)
- [IEEE L802.16-07/024](#)  
Question from ARIB for clarification on the proposed document 8F/1079R1 (2007-04-05)
- [IEEE L802.16-07/023](#)  
TIA TR-45 Correspondence regarding Evaluation Report (2007-04-16)
- [IEEE L802.16-07/021](#)  
Informal Liaison from TR-45.AHIMT (2007-03-15)

Jose Puthenkulam asked if we need to prepare additional response to some of the questions raised. José Costa and Roger believed that it is cumbersome to do so at this stage due to the fact that evaluation reports are due tomorrow.

### 3GPP

Roger read his email to the 802.21 Chair regarding [IEEE L802.16-07/022](#) (“Liaison from 3GPP TSG SA: Mobility interworking between 3GPP and WiMAX systems”) and reviewed his proposed response in C802.16-07/011. Roger requested that NetMan TG develop a response. This was added to the NetMan agenda.

### WiMAX Forum

Roger reviewed a statement from the WiMAX Forum ([IEEE L802.16-07/027](#)) to the liaison statement of 13 March 2007. Roger asked TGM to discuss this letter. This was added to the TGM agenda.

It was suggested that IEEE staff be consulted on this issue to avoid potential problems.

There were discussions on how to handle the clause renumbering in the standard (for example during the revision project) if an external reference is used. Roger commented that WiMAX Forum has similar issue on how to maintenance correct references to IEEE Std 802.16 and suggested working out a solution.

Jose Puthenkulam asked if there is a need to have a joint meeting between TGM and the Maintenance TG. Roger commented that the revision project needs to be aware of this issue since some members have proposed to add a profile during the revision project. However, no joint meeting was planned.

### IETF

Phil Barber reported the activities on the review of IETF draft "IPv6 over 802.16 / IPCS" specification.

Roger asked if there were any comments or questions. Erik Colban mentioned that the authors of the document indicated that they will consider incorporating the comments from the 802.16 WG.

Phil promised to include the report in the NetMan minutes.

### **Future Sessions <<http://ieee802.org/16/calendar.html>>**

- **Session #50:** 16-19 July 2007: San Francisco, CA, USA with [IEEE 802 Plenary Session](#). There is a concern of insufficient meeting space. Roger asked TG Chairs to do a headcount during this meeting in order to provide more accurate meeting space requirements.
- **Session #51:** 17-20 Sept 2007: IEEE 802.16 Interim Session, Malaga, Spain, hosted by Gordon Antonello of AT4 wireless.
- **Session #52:** 12-15 November 2007: Atlanta, GA, USA, with [IEEE 802 Plenary Session](#).
- **Session #53:** 21-24 January 2008; Levi, Finland (hosted by Carl Eklund)  
Carl mentioned that there is no additional information other than the ones available on the Web. More details will be available in Sept.
- **Session #54:** 17-20 March 2008: Orlando, FL, USA. with [IEEE 802 Plenary Session](#)
- **Session #55:** May 2008 (probably 19-23 May); site to be determined at Closing Plenary of Session #50  
*Proposals solicited*; please see [IEEE 802.16 Interim Session Guidelines](#).

### **New Business**

Andreas Molisch commented that future site selection should consider access to an international airport. Roger commented that the membership selects a site from proposals received and may take transportation into consideration. In addition, 802.16 has a tradition of holding interim sessions outside America since IEEE 802 plenaries are usually in North America.

No other new business.

Motion to adjourn at 4:47pm, proposed Phil Barber, seconded by Scott Probasco, passed without objection.

## **IEEE 802.16 Session #49 Closing Plenary Meeting**

Thursday 10 May 2007

### **Call to Order**

Roger called the meeting to order at 7:41 pm.

The following advice was provided by the WG Chair concerning IEEE Standards Association (IEEE-SA) rules regarding patents:

- The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
- Early identification of patent claims which may be essential for the use of standards under development is encouraged;
- There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

The WG Chair presented Slides #1-#5 of the IEEE-SA's Patent Slides for Standards Development Meetings <<http://standards.ieee.org/board/pat/pat-slideset.ppt>>.

An opportunity was provided “for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard.”

Ayman Naguib of Qualcomm made the following statement: “Qualcomm may have IP, that would impact the practice of the standard and if we do, we would comply with the IEEE patent policy.”

There were no other responses.

### **Quorum Count**

Roger announced that he did a count and found that 154 WG members (out of the 267 WG members) were registered for this session. Therefore, he determined that the meeting had a quorum.

### **Logistics – Host**

Roger expressed his thanks to the meeting host Jose Puthenkulam and the staff. The WG members gave a round of applause to Jose and the staff. Jose explained further details on the logistics.

### **Approval of Agenda**

The Closing Plenary agenda <<http://ieee802.org/16/meetings/mtg49/closing.html>> was reviewed.

Motion (7:57pm): To approve the Closing Plenary Meeting Agenda on the server. Proposed by Brian Kiernan, seconded by Phil Barber, passed without objection.

### **NetMan Task Group**

A TG report was made by TG Chair Phillip Barber (IEEE 802.16netman-07/011). Phil also reported on the review of the draft liaison letter to 3GPP. He also reported discussion regarding the new 802.11 VTS S, and its interaction with 802.1, to determine if 802.16 may benefit from similar interaction on this matter. It was reported that further investigation is warranted. Phil volunteered and was appointed as the ad hoc chair regarding the coordination with 802.1 AVB task group. Joey Chou volunteered to participate in the activity.

**Motion (7:59 pm):** “To develop and issue the Draft document P802.16i/D3 based on the resolution of comments as recorded in 802.16-07/030r1, and to authorize the WG Chair to initiate a Working Group Letter Ballot recirculation on the Draft, to close around July 9, 2007” proposed by Phil Barber, seconded by Mike Hart, motion approved by unanimous consent.



## Maintenance Task Group

A report was presented by TG Chair Jon Labs (IEEE 802.16maint-07/018r1). About 12 people attended the TG meetings.

**Motion (at 7:53pm):** “To accept the database IEEE 802.16-07/029r3 as the comment resolutions for LB#23b on P802.16-2004/Cor2/D3 and to generate P802.16-2004/Cor2/D4.” proposed by Jon Labs, seconded by Ken Stanwood. Motion passed by unanimous consent.

**Motion (at 8:20 pm):** “To terminate LB #23, to authorize the WG Chair to withdraw the 802.16-2004/Cor2 PAR at Session #50, and to incorporate P802.16-2004/Cor2/D4 into the Revision consolidation document P802.16Rev2 before its adoption as a WG draft.” proposed by Jon Labs, seconded by John Humbert.

Roger raised a concern on the motion regarding the timing of withdrawing the 802.16-2004/Cor2 PAR at Session #50 and suggested a friendly amendment to remove “at Session #50.” Job and John accepted the following amended motion.

**Motion (at 8:30 pm):** “To terminate LB #23, to authorize the WG Chair to withdraw the 802.16-2004/Cor2 PAR, and to incorporate P802.16-2004/Cor2/D4 into the Revision consolidation document P802.16Rev2 before its adoption as a WG draft.” Proposed by Jon Labs, seconded by John Humbert.

A question was raised as to whether Cor2/D4 is stable enough to be merged into the revision document. Jon explained the status of the current document.

Jon indicated that P802.16-2004/Cor2/D4 should be available within two weeks.

Motion passed 62/0/0

## License-Exempt Task Group

A report was made by the TG Chair Mariana Goldhamer (IEEE 802.16h-07/011r1).

### Motion (8:35 pm):

To:

- (a) Authorize the LE TG Editor to create Working Group Draft IEEE P802.16h/D2b based on the comment resolutions recorded in database IEEE 802.16-06/016r6;
- (b) Terminate Working Group Letter Ballot #24

proposed by Mariana Goldhamer, seconded by Ken Stanwood.

David Castelow asked why we need to create the WG draft if the WG LB is terminated. Roger explained that this is a proper process; the termination of the WG LB does not indicate the termination of the project. The working group draft allows the project to continue its progress.

David also asked why creating a new ballot will change the approval ratio. Roger explained that some ballot group members are no longer active in the WG and it is hard to solicit an update of their opinions. A new ballot allows the TG to reorganize its work.

Passed: 34/0/1

### **Relay Task Group**

A report was made by the Relay TG Chair Mitsuo Nohara (IEEE 802.16j-07/011r3) on the progress of the Relay TG. Significant discussion followed, including discussion of the time line.

Motion (at 9:00pm) “To approve 802.16j-06/026r4 as the working group draft P802.16j/D1”, proposed by Mitsuo Nohara, seconded by Wen Tong.

A long discussion ensued regarding the readiness of the document.

Motion failed: 39/42/6.

### **TGm**

A report was presented by TG Chair Brian Kiernan (IEEE 802.16m-07/017). He reviewed the document IEEE 802.16m-07/014.

Motion (9:30pm) “To adopt IEEE 802.16m-07/014 as working group process”, proposed by Brian Kiernan, seconded by John Humbert. Extensive discussion followed.

Motion “To defer the motion to July”, Proposed by Carl Eklund, seconded by Dan Gal. Motion passed without objections.

### **Liaison**

Carl Eklund reviewed a proposed response (C802.16-07/012r1) to liaison statement IEEE L802.16-07/027 from the WiMAX Forum.

Motion (9:49pm) “To approve the document C802.16-07/012r1 as a liaison statement to the WiMAX Forum”, proposed Carl Eklund, seconded Jon Labs.

Passed: 53/0/0

José Costa reviewed a proposed response (C802.16-07/013) to liaison statement IEEE L802.16-07/028, which has been received earlier in the week from the WiMAX Forum.

Motion (9:55pm) “To approve the document C802.16-07/013 as a liaison statement to the WiMAX Forum”, proposed by José Costa, seconded by Lei Wang.

Following discussion, some changes were agreed. Motion was amended as following

Motion (10.08pm) “To approve the document C802.16-07/013r1 as a liaison statement to the WiMAX Forum”, proposed by José Costa, seconded by Lei Wang.

Passed: 53/0/0

The documents C802.16-07/016r1 (Proposed statement to IP-OFDMA Evaluation Groups) and C802.16-07/015 (Summary of responses for IP-OFDMA evaluation questions/comments) were reviewed. Discussion was solicited.

Motion (at 10:22 pm) “To approve the document C802.16-07/016r1, with the content of C802.16-07/015 (subject to editorial corrections) attached as Annex 1, as a statement to the IP-OFDMA evaluation groups”, proposed by John Humbert, seconded by Shawn Taylor.

Passed 37/0/3

Phil Barber reviewed document C802.16-07/011r1 (Proposed response to 3GPP TSG SA Liaison Statement L802.16-07/022)

Motion (at 10:29pm) “To approve the document C802.16-07/011r1 as a liaison statement to 3GPP TSG SA subject to editorial corrections”, proposed by Phil Barber, seconded by Sea Cai.

There was no discussion on the motion.

Motion passed 30/0/0

### **Future Sessions <http://ieee802.org/16/calendar.html>**

Session #50: 16-19 July 2007: San Francisco, CA, USA with IEEE 802 Plenary Session

Roger would like to give feedback to executive secretary on the meeting space requirement for July meeting.

NetMan: 2 slots, 8 people

Relay: all slots, 100 people

LE: all slots, 10 people

Maintenance: 6 slots, 15 people

TGm: all slots, 150 people

ITU Liaison: No meetings anticipated

Roger confirmed with the WG that the only action item required at the EC level is to notify the EC of the intent to withdraw the Cor2 PAR.

Session #51: 17-20 Sept 2007: Malaga, Spain (hosted by Gordon Antonello)

Shawn Taylor volunteered to contact Gordon Antonello for meeting logistics.

Session #52: 12-15 November 2007 in Atlanta, GA, USA with IEEE 802 Plenary Session

Session #53: 21-24 January 2008; Levi, Finland (hosted by Carl Eklund)

Session #54: (tentatively) 17-20 March 2008: Orlando, FL, USA, with IEEE 802 Plenary Session

Session #55: May 2008 (probably 19-23 May); site to be determined at Closing Plenary of Session #50  
Proposals solicited; please see IEEE 802.16 Interim Session Guidelines.

### **Publicity**

Without objection, the Session #49 Report will be developed by the WG Chair.

### **New Business**

No new business

Group gave a round of applause to Jennifer Reyes and VeriLAN.

### **Closing**

A Motion (at 10:41 pm) to adjourn the meeting was made by Sean Cai, seconded by Upkar Dhaliwal, and carried by unanimous voice vote. The meeting was adjourned at 10:42 pm on 10 May 2007.

### **Web References**

Session #49 Web Page

<http://ieee802.org/16/meetings/mtg49>

Session #49 Attendance and Participation List

<http://ieee802.org/16/meetings/mtg49/reglist.html>

Session #49 Report

<http://ieee802.org/16/meetings/mtg49/report.html>