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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 #72</b>	
Date Submitted	<b>22 April 2011</b>	
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Abstract	IEEE 802.16 Session #72 Minutes (Singapore)	
Purpose	To record the minutes of the IEEE 802.16 Working Group Opening and Closing Plenary meetings at Session #72. For approval at Session #73	
Release	The contributor is familiar with the IEEE-SA Copyright Policy < <a href="http://standards.ieee.org/IPR/copyrightpolicy.html">http://standards.ieee.org/IPR/copyrightpolicy.html</a> >.	
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 #72

*IEEE 802.16 Working Group  
Singapore, Singapore  
March 14–17, 2011*

### IEEE 802.16 Session #72 Opening Plenary Meeting

Monday March 14, 2011, 13:40 – 16:10 hours.

#### Opening

The Working Group (WG) meeting was called to order by Dr. Roger Marks at 13:40 hours local time. He welcomed the attendees to Session #72 of the IEEE 802.16 WG. Roger provided the URL for the server containing the welcome page, links to the upload facilities, attendance, agenda, etc. Roger explained the web site and the WirelessMAN Interactive Calendar.

Roger introduced himself as Chair of the Working Group (WG). Roger is affiliated with the WiMAX Forum. He informed the WG that his affiliation with WiMAX Forum will come to an end at the end of the month. Vice Chair Rakesh Taori, affiliated with Samsung, and Secretary Erik Colban, affiliated with Huawei, introduced themselves. Treasurer Scott Migaldi, affiliated with Motorola, was introduced in absence. The Chair provided information related to logistics and meeting registration.

Roger informed the WG about the agenda. There had been problems updating the local server and it had not been updated prior to the meeting, but the normal web site was current.

#### Membership and Voting

The chair described types of Membership in the WG as well as the rights and obligations of Membership in the WG (<http://newton.events.ieee.org/802.16/16/membership.html>). At the beginning of the Session there were 226 Members (<http://iee802.org/16/members.html>) of the WG. Potential Members (22) ([http://iee802.org/16/members\\_pot.html](http://iee802.org/16/members_pot.html)), Members in Peril ([http://iee802.org/16/members\\_peril.html](http://iee802.org/16/members_peril.html)) and Observers (<http://iee802.org/16/observers.html>) were also noted. Members of the WG, as well as Potential Members, were advised to verify that a Voting Token was printed on their registration badge.

#### Attendance

The attendees were informed that acquiring and retaining Membership in the WG depends on logging attendance correctly in the IEEE Automated Meeting Attendance Tool (“IMAT”). The WG chair demonstrated the method of registering in the IMAT system. The attendance software's “Affiliation” field is the appropriate Affiliation per IEEE-SA affiliation disclosure requirements (reference <http://standards.ieee.org/faqs/affiliationFAQ.html>) and will be reported as such. The chair explained that entering “IEEE” or “WG802.16” as affiliation is invalid and no participation credit will be given in that case. Attendees were advised that they must record at least 24 of the 32 possible credit hours in the IMAT attendance system in order to ensure “Participation” status for Session #72 of IEEE 802.16 WG. The Chair noted that attendance credit will be granted to 802.16 Members for participation in IEEE 802.18, 802.19, 802.21 and 802.23.

#### Approvals

The WG chair reviewed the agenda (reference <http://iee802.org/16/meetings/mtg72/opening.html>) and asked for comments or concerns. None were received.

**Motion** (13:52 h): “To approve the agenda of Session #72.”

Moved by Ron Murias, seconded by J.K. Fwu.

Motion approved by unanimous consent.

The WG chair asked if there were any comments on the minutes of the previous session. None were received.

**Motion** (13:53 h): *“To approve the Minutes of Session #71 ([IEEE 802.16-10/0063](#)).”*

Moved by Lei Wang, seconded by Brian Kiernan.

Motion approved by unanimous consent.

## Working Group Reports and Issues

The WG chair displayed the Chair’s Opening Plenary Presentation Slides, [IEEE 802.16-11/0007r1](#).

The WG chair presented the patent policy materials (reference <http://standards.ieee.org/board/pat/pat-slideset.pdf>) He presented slides 1, 2, and 3. Yan-Xiu Zheng provided a letter of assurance from ITRI to the Chair, who proceeded to slide 4 and then slide 0. The chair instructed the secretary to record in the minutes that slides 0-4 were shown, that an opportunity was given to the attendants to respond, and that one response was provided.

The chair then continued presenting the rest of IEEE 802.16-11/0007r1. He reminded the group that Letters of Assurance (LoA) are available at the IEEE-SA web site. A database of LoAs related to IEEE 802.16 is available at [http://standards.ieee.org/db/patents/pat802\\_16.html](http://standards.ieee.org/db/patents/pat802_16.html). The chair instructed the Task Group chairs to repeat the patent policy rules in their groups per the details provided. Copyright information is available at <http://ieee802.org/16/ipr/copyrights>.

The Chair reminded the group that submissions which violate procedures will not be accepted <http://WirelessMAN.org/submit.html>.

The chair discussed the IEEE 802 Rules documents, including Policies and Procedures, the Operations Manual and also the Working Group P&P <http://ieee802.org/devdocs.shtml>. He explained the role and responsibilities of the WG chair and explained the issue of WG Domination.

The chair provided a Status Report in [IEEE 802.16-11/0006](#). He mentioned that the chair of the Maintenance Task Group, Jon Labs, will not be able to continue as chair of the Maintenance TG. Yan-Xiu Zheng will be acting as the chair at this meeting. The WG chair also mentioned the session in Taipei and brought attention to the Session #71 [Report](#).

The chair gave some updates from the IEEE 802 EC meeting held on March 14<sup>th</sup>. A motion to forward Draft IEEE Std 802.16m/D12 to RevCom was approved by the EC. He informed the WG that RevCom meets on March 30<sup>th</sup>, and the SA Board Meeting is on March 31<sup>st</sup>.

The chair mentioned that IEEE Std. 802.16/Conformance04-2006 requires reaffirmation or other maintenance action in 2011. No decision whether to reaffirm the standard or let it expire was taken at the opening session, and the decision was left open for discussion.

The chair introduced Tricia Gerdon, the new SA staff liaison. Terry DeCourcelle of the IEEE-SA had cancelled her plan to attend this 802 Plenary session. She had planned to attend the Tuesday WATO meeting in person, but will attend by phone. Paul Nikolich asked what Terry’s role in WATO was. Roger answered that WATO addresses issues of transposition of IEEE documents, and therefore her attendance was needed. Roger informed the WG that the representative from ARIB could not attend.

Regarding the IEEE Smart Grid Strategy, the Chair said he will upload slides he received on March 4<sup>th</sup>.

JTC1/SC6 is discussing development of new security frameworks. Some might apply to the 802.11 and 802.16 standards. This has raised concerns. Bruce Kraemer (chair of 802.11) will attend the June session in San Diego and has suggested that IEEE 802 be formally represented.

The chair informed the WG that the IEEE 802 Architecture revision project has approximately 200 comments to resolve. He mentioned that the venue for the March 2012 IEEE 802 Plenary is yet to be decided and that the choices are Waikoloa or Melbourne. He presented the 802 PARs under consideration; see <http://ieee802.org/PARs.shtml>. He asked if anyone had any comments on the existing PARs. No comments were received from the attendants.

The WG chair talked about the proposed 1900.7 PAR. He reviewed email correspondence he had received and indicated that that the WG might wish to review the PAR. Tuesday 8:00-12:00 had been set aside on WG 802.16’s schedule for PAR review. At 11:00, WG

802.19 is convening a meeting for reviewing the draft 1900.7 PAR. The chair asked if anyone had comments. He said that the WG leadership meeting earlier in the day discussed the topic and considered asking Max Riegel to chair the PAR review session. He asked if there were any volunteers interested in participating; Phil Barber and Michael Gundlach expressed interest. Michael noted that Max will attend. Phil asked whether the group is empowered to take action on behalf of the WG. The WG chair asked the group if there were any objections to empowering the ad-hoc group to develop and communicate the WG's view at WG 802.19 meeting. No objection was received.

The chair reviewed the week's schedule. He noted that the WATO meeting is not a WG 802.16 meeting but anyone was welcome to attend.

#### **TGm Report:**

TGm Chair Brian Kiernan presented [IEEE 802.16m-11/0001](#). Brian main message was that the TG had concluded its work. The WG chair mentioned that there is still some communication with RevCom and IEEE-SA to be done, including publication activities. Brian was recognized with the WirelessMAN baseball hat. Vice Chair J.K Fwu, Vice Chair Phil Barber, editor Ron Murias, secretary Rakesh Taori, and Reza Arefi (who led the ITU-R Liaison Group) also received the WirelessMAN baseball hat. The WirelessMAN shirt in XXL was presented to Brian. The WG chair reminded the group about the TGm Editorial meeting on Thursday.

#### **GRIDMAM TG Report:**

GRIDMAN TG Chair Tim Godfrey presented [IEEE 802.16n-11/0001](#).

#### **M2M TG Report:**

M2M TG Chair Ron Murias presented [IEEE 802.16p-11/0003](#).

#### **Project Planning Committee (PPC) Report:**

PPC Chair Rakesh Taori presented [IEEE 802.16ppc-11/0001](#).

Roger Marks presented contribution [IEEE C802.16-11/0001](#) ("Proposed Draft PARs for Revision and Division of IEEE Std 802.16"). After the presentation, Phil Barber mentioned that normally the Maintenance TG is responsible for developing revision PARs. Roger responded that his proposal impacts the WG in an exhaustive way, and that that is the reason he submitted his contribution to the WG and why the discussion should be assigned to PPC. Phil then noted the importance of the PARs, mentioning that PARs must be accepted by the EC during an 802 plenary, so if this is not done at this meeting the next opportunity is in July.

**Motion**(15:18): *"To assign PAR revision discussions to the PPC and authorize the PPC to submit resulting PARs to the IEEE 802 EC, subject to WG confirmation at the Closing Plenary"*

Moved by Phil Barber, seconded by Brian Kiernan

No discussion. No objection. The motion passed by unanimous consent.

#### **Maintenance TG Report:**

In the absence of the TG Chair, Acting Chair Yan-Xiu Zheng presented [IEEE 802.16maint-11/0001r1](#)

#### **ITU-R Liaison Group Report:**

ITU-R Liaison Group Chair Reza Arefi presented [IEEE L802.16-11/0006](#).

After the presentation Brian Kiernan asked why the WiMAX Forum is a transposing organization, since it is not a regional SDO. Reza replied that there is no limitation that requires a transposing organization to be a regional SDO. He mentioned that WiMAX Forum has a specific issue – radio specs – which it wishes to include in the transposition.

**Motion** (15:35): *"To authorize the ITU-R Liaison Group to draft documents regarding contributions as needed, tentatively approve them on behalf of the WG (subject to confirmation at the 802.16 Closing Plenary), submit them for 802.18 TAG review, and represent the WG with the 802.18 TAG."*

Moved by Reza Arefi, seconded by Lei Wang

No discussion, no objection, motion passed by unanimous consent

The WG chair presented [IEEE L802.16-11/0004](#) (“Draft ARIB STD-T103, Version 1.0: 200 MHz-Band Broadband Wireless Communication Systems between Portable BS and MSs”). He suggested letting the ITU-R Liaison Group develop comments on the ARIB document. Phil asked what the agreement between ARIB and IEEE 802 is. Roger noted that ARIB is allowed to publish its own standard based on 802.16, specifying differences in a particular way. The ARIB draft specifies the use of different pilots in one of the modes. There was some discussion on whether OFDMA allowed for different frame lengths. Phil spoke against allowing organizations outside the organization that develops the standard to make modifications. Roger said that is common for IEEE to provide for regional adaptations/modifications of international standards. Phil questioned whether the modifications were in line with the agreement. Reza agreed to handle this issue in the ITU-R Liaison Group.

#### **Future sessions:**

Session #73: Ron Murias provided an update. He extended an invitation to others to become sponsors. He informed that attendees would be able to register soon.

Session #75: Mr. Kitti Wongthavarawat presented [IEEE S802.16-11/0002](#), proposing to have Session #75 in Bangkok, Thailand on 19-22 September 2011. There is also a corresponding text document [IEEE C802.16-11/0002](#).

**Motion** (16:05): *“To select Bangkok as the location for Session #75 based on the proposal by Mr. Kitti Wongthavarawat.”*

Moved by Phil Barber, seconded by Mat Sherman

Motion passed by unanimous consent.

**AOB:** None

**Motion** (16:10): *“To adjourn.”*

Moved by Brian Kiernan, seconded by Lei Wang.

Motion passed by unanimous consent.

## IEEE 802.16 Session #72 Closing Plenary Meeting

Thursday, March 17, 2011, 19:47 – 22:01

### Opening

The Chair reminded the attendees of the patent policy and asked if anyone needed a review of the details. No request was made, and the meeting proceeded.

The Chair of the 802.16 WG called the meeting to order at 19:47 local time. He welcomed the attendees and reviewed the draft Closing Plenary agenda (reference <<http://iee802.org/16/meetings/mtg72/closing.html>>).

**Motion** (19:50): *“To approve the agenda.”*

Moved by Ron Murias, seconded by J.K. Fwu.

Motion passed with no objections.

The Chair mentioned that there had been 96 registered individuals for this 802.16 session.

### Task Group Reports

#### TGm Report:

In the absence of TG Chair Brian Kiernan, the WG chair provided a report.

The WG chair informed the group that the staff has not kept to the schedule to publish 802.16m by March 30. The current schedule is to have draft ready March 28<sup>th</sup>, and thereafter, two weeks for review. Ron Murias will head the review team; the chair asked for volunteers to assist Ron. No one volunteered, so volunteers will be invited later.

Reza Arefi presented a press release to announce approval of 802.16m, proposed by Brian Kiernan and Reza Arefi. See [IEEE C802.16-11/0013](#). No comments were noted.

**Motion** (19:59): *“To approve the press release in [IEEE C802.16-11/0013](#) and to forward it to the IEEE 802 EC.”*

Moved by Reza Arefi, seconded by Ron Murias.

No discussion. The motion passed by unanimous consent.

#### GRIDMAN TG Report:

GRIDMAN TG Chair Tim Godfrey presented [IEEE 802.16n-11/0002](#).

#### M2M TG Report:

M2M TG Chair Ron Murias presented [IEEE 802.16p-11/0006r1](#).

After the presentation there was some discussion on the publication form of the newly proposed Evaluation Methodologies Document. Some members preferred an informative annex, others a separate a section in the AWD.

The TG drafted a response in [IEEE L802.16-11/0014d0](#) to the LS received from WiMAX Forum TWG in document [IEEE L802.16-10/0125](#).

**Motion** (20:20): *“To authorize the WG Chair to forward the Liaison Statement [IEEE L802.16-11/0014d0](#) to the WiMAX Forum and to authorize the WG Chair to make necessary editorial changes before forwarding the LS to the WiMAX Forum, including adjustments to the recipient and CC lists.”*

Moved by Ron Murias, seconded by Phil Barber.

Discussion: Some rewording was proposed by Phil Barber. The LS was updated to IEEE L802.16-11/0014d1. The motion was amended to reference Liaison Statement [IEEE L802.16-11/0014d1](#).

The amended motion passed by unanimous consent

Ron mentioned that Hyunjeong Kang is new editor of the AWD.

Reza mentioned that he in the past has made attempts to get inputs from the GRIDMAN and M2M TGs to send to ITU. He suggested that the TGs send some input (activities, requirements, etc) to ITU. The motivation is to reach a greater audience. He asked that the M2M TG address his request at the next meeting.

#### **Maintenance TG Report:**

In the absence of the TG chair, Acting Chair Yan-Xiu Zheng presented document [IEEE 802.16maint-11/0008r1](#).

**Motion** (20:35): *“To forward L802.16-10/0013d1 as the proposed Liaison statement to the WiMAX TWG in response to L802.16-11/0002 and L802.16-11/0005 and authorize the WG Chair to make any necessary editorial modifications.”*

Moved by Yan-Xiu Zheng, seconded by Ron Murias.

No discussion. No objection. Motion passed by unanimous consent.

Roger requested that the comments that have been incorporated into the 802.16m draft be tracked in the Maintenance Database so that participants can determine the eventual outcome.

The WG Chair appointed Yan-Xiu Zheng as Maintenance TG Chair.

#### **Project Planning Committee (PPC) Report:**

PPC Chair Rakesh Taori presented document [IEEE 802.16ppc-11/0002r1](#)

**Motion** (20:44): *“To approve the PARs in documents [IEEE 802.16-11/0010](#) and [IEEE 802.16-11/0011](#) and to submit these to the 802 EC for approval.”*

Moved by: Rakesh Taori, seconded by: Ron Murias

Discussion: Roger informed the group that there was an objection from one of the members of the EC, Bob Grow, who said that the name 802.16M would be confusing. There is a possibility that the EC or IEEE-SA could change the name, possibly using a number instead of a letter.

No other discussion. No objection. The motion passed by unanimous consent.

Rakesh solicited comments from the WG on the completed Hierarchical Networks (HN) report to gauge the interest for a project. Inuk Jung, who had chaired the HN ad hoc, said that there was no immediate interest in developing a PAR. He also mentioned that one of the main issues discussed was the relationship with IEEE Std. 802.21.

#### **ITU-R Liaison Group Report:**

ITU-R Liaison Group Chair Reza Arefi presented document [IEEE L802.16-11/0017r1](#).

**Motion** (21:05) : *“To approve the following documents and authorize the WG Chair to forward them to the respective recipients subject to any editorial corrections including additions to the cc list.*

- 1) [IEEE L802.16-11/0018](#) – Liaison statement to WATO members regarding further development of PDNR M.[IMT.RSPEC]
- 2) [IEEE L802.16-11/0016](#) – Liaison statement regarding TTA PG702 Liaison Officer change
- 3) [IEEE L802.16-11/0011](#) – Recommended Response to ARIB on “Draft ARIB STD-T103, Version 1.0: 200 MHz-Band Broadband Wireless Communication Systems between Portable BS and MSs”

Moved by Reza Arefi, seconded by Brian Kiernan

No discussion.

In favor: 27

Opposed: 0

Abstained: 0

**Motion** (21:11): *“To approve the following documents and authorize the WG Chair to forward them for appropriate 802 approval subject to any editorial corrections.*

- 1) [IEEE L802.16-11/0009](#) – Update of Subclause 5.6 in revision 11 of Recommendation ITU-R M.1457 (meeting x notification)
- 2) [IEEE L802.16-11/0010r1](#) – proposed modifications to THE WORKING DOCUMENT TOWARDS PDNR M.[IMT.RSPEC]
- 3) [IEEE L802.16-11/0012](#) – Vocabulary Terms and abbreviations Related to IEEE 802.16”

Discussion on 3): Erik Colban asked why terminology from 802.16h had not been included. The WG chair replied that there had been an earlier decision not to include 802.16h, reflected in a prior contribution to ITU-R.

Moved by Reza Arefi, seconded by: Phil Barber

In favor: 30

Opposed: 0

Abstain: 0

Reza Arefi announced his resignation as ITU-R Liaison Group Chair effective 15 April 2011. He thanked the ITU-R LG participants for their valuable support throughout his time as chair of the group.

The WG chair thanked Reza for his excellent work and said he would be missed. He then appointed Takashi Shono as new LG chair.

### 802.21 Report

None.

### Comments on 1900.7 PAR

Phil Barber presented [IEEE 802.16-11/0009](#), which provides comments on dyspan-ws-radio-11/13r0.

Phil noted that the document was provided to the SG 1900.7 chair on an informal basis but was not explicitly discussed in WG 802.19. WG 802.19 observed the 1900.7 document was flawed. Phil recommended that the next step would be that WG 802.16 forward this document to the 1900.7 SG chair and to the NesCom chair.

**Motion** (21:34): *“To forward the document [IEEE 802.16-11/0009](#) to the 1900.7 SG chair, 802 EC, the NesCom chair and the NesCom administrator.”*

Moved by Phil Barber, seconded by Ron Murias

No discussion, no objection. The motion passed by unanimous consent.

### ISO/IEC JTC1 issues:

The WG chair presented [802.11 doc 802-11-11-0311-02](#). (Not available during the closing plenary)

He asked Lei Wang to attend the JTC1 SC6 meeting on behalf of 802.16. Lei agreed and asked for specific instructions from the cognizant participants.

### Future Sessions:

Ron Murias provided updates on Session #73 at Lake Louise, Canada. He presented document [IEEE C802.16-11/0003](#).

The WG chair noted that there would be no registration fee collected ahead of the meeting. He requested members to use the cancellation form if they needed to cancel after registration. He thanked Buzz Rigsbee for helping to arrange the hotel contract. He mentioned that if a sufficient number of members attend, the meeting fee could be lowered.

The WG chair listed the future sessions. There is no proposal yet for hosting the January 2012 session. Shantidev Mohanti informed the group that IIT Dehli was considering hosting the session, and that there may be a proposal at the May session.

Buzz Rigsbee had requested a straw poll on “Choice between Melbourne and Waikoloa for the Mar 2012 plenary sessions” (see document [IEEE 802.16-11/0012](#)) The straw poll showed 13 attendants in favor of Melbourne and 13 in favor of Waikoloa.



## Closing

**Motion** (22:01): *“To adjourn.”*

Moved by Phil Barber, seconded by Reza Arefi.  
The motion carried by unanimous consent.

## *Registration List: IEEE 802.16 Session #72*

Update: 2011-03-28

95 attendees registered and/or in the attendance logs, including 80 with "participation" credit

<b>Participation Credit</b>	<b>Name\Family</b>	<b>Name \Given</b>	<b><u>Affiliation</u></b>	<b>City</b>	<b>State \Province</b>	<b>Country/Admin</b>
Yes	Agiwal	Anil	Samsung	Bangalore		India
Yes	Al-Kanani	Hassan	NEC Corporation	London		UK
Yes	Barber	Phillip	Huawei Technologies Co., Ltd.	Plano	TX	USA
No++	Bohyun	Kang	16p	Suwon	Gyeonggi-do	Korea
Yes	Bratspiess	Inbar	Sequans	Tel Aviv		Israel
No	Calcev	George	Huawei Technologies Co. Ltd	Rolling Meadows	IL	USA
Yes	Cha	Jaesun	Electronics and Telecommunications Research Institute (ETRI)	Daejeon		Korea
Yes	Chang	Sung-Cheol	Electronics and Telecommunications Research Institute (ETRI)	Daejeon		Korea
Yes	Choi	Jinsoo	LG ELECTRONICS			Korea
No	Choi	Yang-Seok	Intel Corporation	Hillsboro	OR	USA
Yes	Chou	Ching-Chun	National Taiwan University	Taipei	Taiwan	Taiwan
No	Chou	Joey	Intel Corporation	Chandler	AZ	USA
Yes	Chun	Jin Young	LG ELECTRONICS	Anyang	Gyeonggi-do	Korea
Yes	Colban	Erik	Huawei Technologies Co. Ltd	San Diego	CA	USA

Yes	Fang	Yu-Chuan	ITRI	Chutung Hsinchu	Taiwan	Taiwan
Yes	Fujimoto	Kenichi	Japan Radio Co.,Ltd.	Tokyo		Japan
Yes	Fwu	Jong-Kae (JK)	Intel Corporation	Santa Clara	CA	USA
Yes	Gal	Dan	ALCATEL-LUCENT	Morris Plains	NJ	USA
Yes	Godfrey	Tim	Electric Power Research Institute, Inc. (EPRI)			
No	Gundlach	Michael	Nokia Siemens Networks	Munich		Germany
Yes	Hoang	Anh	Institute for Infocomm Research			
Yes	Hoang	Dien	National Institute of Information and Communications Technology (NICT)			
Yes	Hsiao	Ying-Chuan	Industrial Technology Research Institute	Chutung, Hsinchu	Taiwan	Taiwan
Yes	Hsieh	Ching-Tarng	Industrial Technology Research Institute	Hsinchu		Taiwan
Yes	Hsieh	Yu-Tao	ITRI	Hsinchu		Taiwan
No	Huang	Lei	Panasonic Singapore Laboratories			Singapore
Yes	Imata	Satoshi	KDDI R&D Laboratories Inc.			Japan
No	Iwaoka	Mitsuru	Yokogawa Electric Corporation	Musashino-shi	Tokyo	Japan
Yes	Jan	Yih Guang	TKU	Taipei		Taiwan
Yes	Josiam	Kaushik	Samsung	Richardson	Texas	USA
No	Juang	Rong-Terng	ITRI	Hsinchu		Taiwan
Yes	Jung	Inuk	LG ELECTRONICS	Anyang	Gyongkido	Korea

Yes	Jung	Soojung	Electronics and Telecommunications Research Institute (ETRI)			Korea
Yes	Kang	Hyunjeong	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Kanzaki	Hajime	Hitachi Ltd.	Kokubunji-shi	Tokyo	Japan
No	Kiernan	Brian	InterDigital Communications, LLC	King of Prussia	PA	USA
Yes	Kim	EunKyo	TTA	Sungnam-city	Gyeonggi-do	Korea
Yes	Kim	Eunkyung	Electronics and Telecommunications Research Institute (ETRI)	Daejeon	Daejeon	Korea
Yes	Kim	Jeongki	LG ELECTRONICS	Anyang-Shi	Gyeonggi-do	Korea
Yes	Kim	Seokki	Electronics and Telecommunications Research Institute (ETRI)	Daejeon	Daejeon	Korea
Yes	Kuo	Ping-Heng	ITRI			Taiwan
Yes	Kwak	Jin-Sam	LG ELECTRONICS	Anyang	Gyeonggi-do	Korea
Yes	Lee	Eunjong	LG ELECTRONICS	Anyang	Gyeonggi-do	Korea
Yes	Lee	Hyun	Electronics and Telecommunications Research Institute (ETRI)	Daejeon		Korea
Yes	Lee	Jin	LG ELECTRONICS	Anyang	Kyungki	Korea
Yes	Lee	Yang-Han	TKU	Taipei	Taipei	Taiwan
Yes	Lee	Youn-Tai	Institute for Information Industry	Taipei	Taiwan	Taiwan
Yes	Li	Honggang	Intel Corporation	Beijing	Beijing	China

Yes	Lim	Chiwoo	Samsung	Suwon	Gyeonggi-do	Korea
No	Lin	Hsin-Piao	National Taipei University of Technology	Taipei		Taiwan
Yes	Lin	Yi-Ting	Institute for Information Industry	Taipei		Taiwan
Yes	Liru	Lu	National Institute of Information and Communications Technology (NICT)	Singapore	Singapore	Singapore
Yes	Maeder	Andreas	NEC Europe, Ltd.	Heidelberg	DE	Germany
Yes	Mao	Ronald	Huawei Technologies Co. Ltd	San Diego	CA	USA
Yes	Mar	Choong	Institute for Infocomm Research			
Yes	Marks	Roger	WiMAX Forum	Denver	CO	USA
Yes	Marque-Pucheu	Gerard	EADS CASSIDIAN			France
Yes	Meddour	Djamal-Eddine	Orange-France Telecom	Lannion		France
Yes	Mohanty	Shantidev	Intel Corporation			USA
Yes	Murias	Ronald	InterDigital Communications, LLC	Calgary	AB	Canada
Yes	Nguyen	An	DHS/NCS	Falls Church	VA	USA
No	Nigam	Anshuman	Samsung	Bangalore		India
Yes	Oodo	Masayuki	National Institute of Information and Communications Technology (NICT)	Yokosuka	Kanagawa	Japan
No	Ooi	Chia	Institute for Infocomm Research			
Yes	Pathmasuntharam	Jaya Shankar	Institute for Infocomm Research	Singapore		Singapore

No	Qin	Fei	China Academy of Telecommunication Technology(CATT)	Beijing		China
Yes	Ryu	Kiseon	LG ELECTRONICS			Korea
Yes	Sambasivan	Sam	AT&T	Austin	TX	USA
Yes	Sayeedi	Shahab	Motorola Solutions	Arlington Heights	IL	USA
Yes	Selva	Bruno	Thales Group	Colombes		France
Yes	Sherman	Matthew	BAE Systems	Wayne	NJ	USA
Yes	Sheynkman	Peter	RuggedCom, Inc.			
Yes	Shono	Takashi	Intel Corporation	Tokyo	Tokyo	Japan
Yes	Son	Yeongmoon	Samsung	Suwon	Kyeonggi-do	Korea
Yes	Tao	Ming-Hung	Industrial Technology Research Institute	HsinChu		Taiwan
Yes	Taori	Rakesh	Samsung	Suwon	Gyeonggi-do	Korea
Yes	Teo	Joseph	Institute for Infocomm Research	Singapore	Singapore	Singapore
Yes	Triglia	Alessandro	OSS Nokalva			Italy
Yes	Tsai	Tsung-Yu	Institute for Information Industry	Taipei City		Taiwan
Yes	Tseng	Chuan-Yuan	NIU	Ilan		Taiwan
Yes	Tseng	Hsien-Wei	DLIT	Taipei		Taiwan
Yes	Wang	Arthur	LinQuest Corporation	Buena Park	CA	USA
Yes	Wang	Hai	Samsung Electronics	Beijing		China
Yes	Wang	Lei	InterDigital Communications, LLC	San Diego	CA	USA
No	Watanabe	Fujio	NTT DoCoMo, Inc.	Palo Alto	CA	USA
Yes	Wong	Sai Ho	Institute for Infocomm Research	Singapore		Singapore
Yes	Yeow	Wai-Leong	Institute for Infocomm Research			

Yes	Zeira	Eldad	InterDigital Communications, LLC	Melville	NY	USA
Yes	Zhang	Xin	National Institute of Information and Communications Technology (NICT)	Singapore	Singapore	Singapore
Yes	Zhao	Jian	Institute for Infocomm Research			
Yes	Zheng	Shoukang	Institute for Infocomm Research			
Yes	Zheng	Yan-Xiu	ITRI International Inc.			Taiwan
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Yes	Zhou	Lei	Samsung	Beijing		China
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+Invalid affiliation disclosure. Accordingly, no participation credit granted.

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# The IEEE 802.16 Working Group on Broadband Wireless Access Standards

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Updated: 2011-04-08 accounting for [Session #72](#).

Number of members: 186

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