

DRAFT



Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Minutes of IEEE 802.16 Session #70	
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Abstract	IEEE 802.16 Session #70 Minutes (Dallas)	
Purpose	To record the minutes of the IEEE 802.16 Working Group Opening and Closing Plenary meetings at Session #70. For approval at Session #71	
Release	The contributor is familiar with the IEEE-SA Copyright Policy < http://standards.ieee.org/IPR/copyrightpolicy.html >.	
Patent Policy and Procedures	The contributor is familiar with the IEEE-SA Patent Policy and Procedures: < http://standards.ieee.org/guides/bylaws/sect6-7.html#6 > and < http://standards.ieee.org/guides/opman/sect6.html#6.3 >. Further information is located at < http://standards.ieee.org/board/pat/pat-material.html > and < http://standards.ieee.org/board/pat >.	

Minutes of IEEE 802.16 Session #70

*IEEE 802.16 Working Group
Dallas, Texas
November 8 - 11, 2010*

IEEE 802.16 Session #70 Opening Plenary Meeting

Monday November 8, 2010, 13:37 – 16:34 hours.

Opening

The Working Group (WG) meeting was called to order by Dr. Roger Marks at 13:36 hours local time. He welcomed the attendees to Session #70 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. Vice Chair Jose Puthenkulam, affiliated with Intel, and Secretary Scott Probasco, affiliated with Nokia, introduced themselves. Treasurer Scott Migaldi, affiliated with Motorola, was introduced in absence. The Chair provided information related to logistics and meeting registration.

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 264 Members (<<http://iee802.org/16/members.html>>) of the WG. Potential Members (<http://iee802.org/16/members_pot.html>), Members in Peril (<http://iee802.org/16/members_peril.html>) and Observers (<<http://iee802.org/16/observers.html>>) were also noted. Members of the WG 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 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 27 of the 36 possible credit hours in the IMAT attendance system in order to ensure “Participation” status for Session #70 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 Chair reviewed the agenda (reference <<http://iee802.org/16/meetings/mtg70/opening.html>>) and asked for comments or concerns. None were received.

Motion (13:50 h): *“To approve the agenda of Session #70.”*

Moved by Brian Kiernan, seconded by Joe Schumacher.

Motion approved by unanimous consent.

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

Motion (13:51 h): *“To approve the Minutes of Session #69 (IEEE 802.16-10/0050).”*

Moved by Phil Barber, seconded by Ron Murias.

Motion approved by unanimous consent.

Working Group Reports and Issues

The Chair displayed the Chair's Opening Plenary Presentation Slides, *IEEE 802.16-10/0055r2*. He reviewed the IEEE-SA affiliation disclosure requirements (reference <<http://standards.ieee.org/faqs/affiliationFAQ.html>>) and again reminded the WG attendees to accurately complete the affiliation field during attendance registration. The Chair reviewed the "Ethics policy" (reference <<http://www.ieee.org/about/whatis/code.html>>).

The Chair displayed the patent policy materials (reference <<http://standards.ieee.org/board/pat/pat-material.html>>) and presented Slides 1-3 from <<http://standards.ieee.org/board/pat/pat-slideset.pdf>>. The Chair asked if there were any questions, and provided an opportunity for responses. No questions or responses were received. He then presented Slide 4 followed by the Optional slide "Instructions for the WG Chair". The Chair asked if there were any questions, or if anyone wanted to speak, and provided an opportunity for responses. No questions or responses were received. The Chair reminded the group that Letters of Assurance are available at the IEEE-SA web site. A database of Letters of Assurances related to IEEE 802.16 is available at <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 <reference <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 <reference <http://ieee802.org/devdocs.shtml>>. He explained the role and responsibilities of the Chair and explained the issue of WG Domination.

Several draft PARS are under consideration at the 802 EC:

1. 802.11 Amendment for fast link setup (FIA study group)
2. 802.15.4 Amendment for medical body area network (MBAN) services
3. 802.15.4 Amendment for low energy critical infrastructure monitoring (LECIM) networks
4. 802.15.8 Standard for personal space communications
5. 802.1AEbn Security Amendment for Galois counter mode-Advanced Encryption Standard-256 (GCM-AES-256) cipher suite

The Chair reminded that the WG has opportunity to provide feedback on these PARs, and asked if anyone had comments on any of the proposed PARs. There were no requests for the WG to provide comments on any of the PARs.

The Chair noted that three tutorials will be delivered on Monday: "Towards Wireless 100 Gb/s beyond 300 GHz", "Opening Pandora's Toolbox: Key Management Protocols Value, Cost, and Future Proofing", and "ASN.1 for More Effective Network Standards."

It was noted that 802.18 will review FCC rules and ECC proposed rules on TV White Space, and potentially prepare reply documents. It was also noted that IEEE 802 Architecture (IEEE Std 802 Revision) group will meet during this Session, and that Phil Barber is liaison from 802.16 WG to this activity and will participate.

Smart Grid activities are occurring in 802, organized in the 802.11 WG. They will develop input to NIST SGIP PAP#2, including the wireless characterization matrix, which has an incomplete entry for 802.16m. The WG should have some participation in this process. Roger will participate in some meetings. The GRIDMAN Task Group should develop a coordinating plan for this activity.

The WG status update, IEEE 802.16-10/0054, was reviewed. There have been two interim sessions since the last plenary. There have been two projects completed in 2010: IEEE Std 802.16h-2010 and IEEE Std 802.16.2-2004. There are currently three active projects: P802.16m, P802.16n, and P802.16p. It was noted that the PAR for P802.16m expires at the end of 2010; a PAR extension request has already been drafted by the Chair, and placed on NESCOM agenda for December.

The Chair noted the summary report <<http://wirelessman.org/meetings/mtg69/report.html>> of Session #69. He further noted the Session #70 Document Guide and the Session #70 Schedule for the week, each of which was accessible from the wirelessman.org web site.

Maintenance Task Group Report

Chair Jon Labs was not present. Joe Schumacher was Acting Chair of the Maintenance Task Group for the Session. Joe presented the report *IEEE 802.16maint-10/0020*. Joe noted that the three maintenance comments received in the P802.16m Sponsor Ballot will be addressed in the Maintenance Task Group for resolution. The database containing the accepted maintenance change request comments

is found in IEEE 802.16maint-09/0007r10. A liaison statement has been received from the WiMAX Forum, IEEE L802.16-10/00109, which will be addressed during this Session.

TGm Report

Brian Kiernan presented the report *IEEE 802.16m-10/0033r1*. Brian discussed the results of the third Sponsor Ballot recirculation, which closed on September 8. The approval rate from this ballot is 89%. The plan for the week was discussed. The calendar for breakout sessions, the agenda and room allocations were reviewed.

The group expects to request EC conditional approval to send P802.16m to RevCom at the end of this session. Also, the group will review and approve a PAR extension request.

Project Planning Ad Hoc Committee

Jose Puthenkulam presented the report *IEEE 802.16ppc-10/0015*. There are 2 active study items: Hierarchical Networks Study Report, and TDD Co-existence Study Report. The objective of discussing these study items is to determine if there is a need for new associated projects. A call for contributions for new study areas has been issued prior to this Session.

The committee will begin discussion of “Vision” topics for the IMT process. This report is needed in March 2011. The WG Chair noted that the IMT expectation regarding the Vision is primarily related to “services” and the need for new spectrum. This topic should be coordinated with the ITU-R Liaison Group.

GRIDMAN Task Group Report

Tim Godfrey presented the report *IEEE 802.16gman-10/0041r1*. The group has a draft System Requirements Document, IEEE 802.16gman-10/0038r1. A System Architecture Reference Model is being developed, with active work on the table of contents.

802.16p Report

Ronnie Murias presented the report *IEEE 802.16p-10/0011*. A System Requirements Document is in development, and discussions will begin toward a System Description Document.

Liaison

ITU-R Liaison Group

Chair Reza Arefi was not present. Takashi Shono was named as the Acting Chair of the ITU-R Liaison Group for this session. He presented the report *IEEE L802.16-10/0111r1*. Shono-san reviewed relevant documents for the session, input documents, proposed objectives, the agenda for the week, and the meeting schedule including room assignment.

Input documents include:

IEEE L802.16-10/0103 (From WiMAX Forum) “*Use of WiMAX Forum Mobile Radio Specification in P802.16m Draft and IEEE WirelessMAN-Advanced Specification (2010-10-06)*”

IEEE L802.16-10/0105 (From ITU-R WP 5D) “[Draft] *Liaison Statement on IMT-Advanced Development (2010-10-20)*”

IEEE L802.16-10/0106 (From ITU-R WP 5D) “[Draft] *Liaison Statement to External Organizations on the Schedule for Updating Recommendation ITU-R M.1457-10 to Revision 11 (2010-10-20)*”

IEEE L802.16-10/0107 (From ITU-R WP 5D) “[Draft] *Liaison Statement to External Organizations (Revision of M.1224) (2010-10-20)*”

IEEE L802.16-10/0108 (From ARIB) “*IMT-Advanced administrative documentation (2010-11-04)*”

IEEE L802.16-10/0112 (From TTA) “*Discussion and proposal on the “Overview” section of the WirelessMAN-Advanced technology part in the Rec. ITU-R M.[RSPEC]*”

The work plan is in IEEE L802.16-10/0017r3.

Motion (14:58h): “*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 Takashi Shono, seconded by Remi Chayer. Motion is approved by unanimous consent.

Roger Marks proposes the Group discuss a Liaison Statement to ITU-R to discuss the use of the term “4G”. Document C802.16-10/0034 was proposed for the Group to consider. There was discussion of recipient of the Liaison (“To”) and the Source, and possible approval processes.

Other Liaisons

Glen Parsons presented IEEE L802.16-10/0110 from the Metro Ethernet Forum. The MEF is seeking comment from 802.16 and others on its technical specifications for mobile backhaul. An ad hoc group will meet this week to draft comments. Peretz Feder will lead the ad hoc group.

Charge to Task Groups, Schedule for the week

The Chair confirmed the room assignments based on needs of the groups.

Future Sessions

Session #71 (Interim): 10-13 January 2011 in Taipei. Members are encouraged to reserve their hotel room before December.
 Session #72 (Plenary): 14-17 March 2011 in Singapore with IEEE 802 Plenary Session.
 Session #73 (Interim): 16-19 May 2011 in Lake Louise, Alberta, Canada. A corporate sponsor is solicited for this session, if interested see Ronnie Murias.

Session #74 (Plenary): 18-21 July 2011 in San Francisco, California, USA with IEEE 802 Plenary Session.
 Session #75 (Interim): 19-22 September 2011: Interim Session; site to be determined in Closing Plenary. Proposals solicited; please see IEEE 802.16 Interim Session Guidelines <reference http://ieee802.org/16/docs/04/80216-04_67.pdf>

Session #76 (Plenary): 7-10 Nov 2011 in Atlanta, Georgia, USA with IEEE 802 Plenary Session

Election of 802.16 Vice Chair

Jose Puthenkulam has resigned as Vice Chair of the WG, effective at the end of this meeting. The election to fill the vacancy, for the term though the March 2012 IEEE 802 Plenary, will be conducted according to the procedures in the *IEEE 802.16 Working Group Officer Election Process* of IEEE 802.16-10/0012.

Three candidates have announced their desire to be Vice Chair: Rakesh Taori (Samsung Electronics), Brian Kiernan (InterDigital Communications), and Zheng Yan-Xiu (ITRI). The chair asked if there were any additional nominations for Vice Chair. There were no replies.

Each candidate addressed the membership: Rakesh Taori, Brian Kiernan, and Zheng Yan-Xiu. The candidates all left the meeting room. An opportunity was provided for members to speak about the election. The members submitted their ballots to IEEE-SA staff member Mike Kipness. The Chair announced the ballot would close, and allowed a final opportunity for members to submit a ballot. The ballots were counted in view of the group. The results were determined to be:

Rakesh Taori 52 votes

Brian Kiernan 24 votes

Zheng Yan-Xiu 34 votes

A run-off election will be held at the closing Plenary. The candidates will be Rakesh Taori and Zheng Yan-Xiu.

New Business

Remi Chayer rose to recognize Jose Puthenkulam for exemplary service as Vice Chairman.

Closing

The meeting was adjourned at 16:34h.

IEEE 802.16 Session #70 Closing Plenary Meeting

Thursday, November 11, 2010, 19:33 – 22:30

Opening

The Chair of the 802.16 WG called the meeting to order at 19:33 local time. He welcomed the attendees and reviewed the draft Closing Plenary agenda (reference <<http://ieee802.org/16/meetings/mtg70/closing.html>>).

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.

Approvals

Changes were made to the agenda.

The agenda was approved without objection.

Session #70 Issues

The Chair thanked Alessandro Triglia for leading the ASN.1 tutorial during the Session. The Chair also commented that attendance is recorded both by session registration and by the IMAT system. This meeting had approximately 134 persons attending the 802.16 session.

Task Group Document Procedures, IEEE 802.16-10/0057, was presented by the Chair. This document is provided to help the members understand how the Task Groups develop and control key documents.

Runoff Election for 802.16 WG Vice Chair

The Chair reviewed the procedures for the runoff election. Each candidate was given an opportunity to address the Working Group. Rakesh Taori addressed the WG. Zheng Yan-Xiu addressed the WG. Both candidates left the room. The members were given opportunity to speak about the election. The ballots were collected by IEEE staff member Mike Kipness. The ballots were counted in view of the members, in the meeting room.

The results were announced by Mike Kipness:

90 eligible voters

89 ballots cast, 1 ballot disqualified

49 votes for Rakesh Taori

39 votes for Zheng Yan-Xiu

Rakesh Taori was thereby elected Vice Chair of the IEEE 802.16 Working Group for the term though the March 2012 IEEE 802 Plenary. The WG Chair will seek confirmation of the election at the IEEE 802 EC meeting of 12 November. If confirmed there, Taori will assume office at the end of that meeting.

Maintenance Task Group

Joe Schumacher presented the report *IEEE 802.16maint-10/0022r1*. The task group had processed three comments from the P802.16m Sponsor Ballot. It also reviewed a liaison letter from the WiMAX Forum TWG (*IEEE L802.16-10/0109*) and drafted a reply in *IEEE L802.16-10/0123*. (This reply liaison was reviewed and updated in the Closing Plenary to Revision 1.) All comment resolutions are recorded in *IEEE 802.16maint-10/0007r12*.

Motion (19:32h): *“To forward L802.16-10/0123r1 as the proposed Liaison statement to the WiMAX TWG in response to L802.16-10/0109 and authorize the WG Chair to make any necessary editorial modifications.”*

Moved by Joe Schumacher, seconded by Lei Wang.

Approve: 53 Disapprove: 0 Abstain: 0

The motion passed.

Based on the input Liaison statement from the WiMAX Forum, the Maintenance Task Group Chair will submit two comments into the next P802.16m recirculation ballot.

802.16p Project

Ron Murias presented the report *IEEE 802.16p-10/0008*. A draft work plan was created, *IEEE 802.16p-10/0007*. The System Requirements Document (SRD) from the PPC, 802.16ppc-10/0011r2, was combined with new contributions to create the M2M SRD in IEEE 802.16p-10/0004. A Call for Contributions will be issued for document structure and table-of-contents of the amendment working document (AWD). The group created and reviewed a Configuration and Control Procedures document, IEEE 802.16p-10/0006. A call for comments will be made regarding the SRD.

The M2M SRD was presented and discussed.

Motion (20:37h): “To amend the System Requirement Document, IEEE 802.16p-10/0004”.

Moved by Kerstin Johnsson, seconded by Shilpa Talwar

Approve: 31 Disapprove: 4 Abstain: 0

The motion passes.

Motion (20:45h): “To baseline the System Requirement Document, IEEE 802.16p-10/0004r1”.

Moved by Ron Murias, seconded by Kerstin Johnsson

Approve: 45 Disapprove: 0 Abstain: 3

The motion passes.

The Chair formally initiated the M2M Task Group, assigned to it the development of the P802.16p PAR, and appointed Ron Murias to Chair the group.

GRIDMAN Task Group

Tim Godfrey presented the report *IEEE 802.16gman-10/0042*. In this meeting, *IEEE 802.16gman-10/0038r3* was approved by the Task Group. Discussion continued on the “System Architecture Reference Model (SARM)” including discussions on adopting text. A work plan was established and agreed.

The Call for Contributions for SARM remains open. The Call for Contributions on Amendment Working document (AWD) Table Of Contents remains open.

The draft SRD *IEEE 802.16gman-10/0038r4* was presented.

Motion (21:03h): “To baseline the 802.16n System Requirement Document, IEEE 802.16gman-10/0038r4, per IEEE 802.16-10/0057r1.”

Moved by Tim Godfrey, seconded by Eldad Zeira.

Approve: 14 Disapprove: 1 Abstain: 5

The motion carries.

The Chair notes that going forward, documents from the GRIDMAN TG shall use IEEE 802.16n-10/xxxx format.

TGm

Brian Kiernan presented the report *IEEE 802.16m-10/0035r4*. A PAR extension request was reviewed and approved in the TG, *IEEE 802.16m-10/0047*. All Sponsor Ballot comments were resolved. As a result, the current approval rate is 93.5%. The task group also resolved a CR to the SDD.

Motion (21:20h): “To approve the 802.16m PAR extension request (IEEE 802.16m-10/00037) and authorize the WG Chair to present it to the IEEE 802 LMSC EC for forwarding to NesCom.”

Moved by Brian Kiernan, seconded by Lei Wang

Approve: 51 Disapprove: 0 Abstain: 0

The motion is approved.

Motion (21:21h): “To approve the Session #70 comment resolutions contained in IEEE 802.16-10/0052r3 and authorize the editor to create a new draft P802.16m/D10.”

Moved by Brian Kiernan, seconded by Ron Murias

Approve: 46 Disapprove: 0 Abstain: 0

The motion is approved.

Motion (21:23h): *“To authorize the IEE 802.16 WG Chair to initiate Sponsor Ballot recirculation #4 on P802.16m/D10.”*

Moved by Brian Kiernan, seconded by Erik Colban

Approve: 48 Disapprove: 0 Abstain: 0

The motion is approved.

Motion (21:25h): *“To authorize the IEE 802.16 WG Chair to request Conditional Approval from the IEEE 802 Executive Committee to forward to the IEEE P802.16m Draft to RevCom”*

Moved by Brian Kiernan, seconded by Ron Murias

Approve: 47 Disapprove: 0 Abstain: 0

The motion is approved.

WG Project Planning Committee

Jose Puthenkulam presented the report *IEEE 802.16pcc-10/0016r1*. Active study items include Hierarchical Networks (report in *802.16ppc-10/0008r2*) and TDD Coexistence. There is no interest from the committee members to pursue the TDD Coexistence report. The committee recommends that the Working Group considers in the next Session a Revision PAR to consolidate IEEE Std 802.16-2009 and 802.16j, 802.16h and 802.16m. A new study item on “Vision for Services and Capabilities of Systems Beyond IMT-Advanced” was accepted.

The 802.16 Project Planning Map was reviewed.

Liaison

ITU-R Liaison Group

Takashi Shono presented the report *IEEE L802.16-10/0121r4*. Incoming liaison statements had been reviewed. Outgoing liaisons had been prepared.

Motion (21:55h): *“To approve the following documents and authorize the WG Chair to forward them to their respective recipients subject to any editorial corrections including amendments to the cc list.”*

- 1) **IEEE L802.16-10/0119r1** – *Liaison statement to ARIB, TTA and WiMAX Forum concerning preparations for IMT.RSPEC*
- 2) **IEEE L802.16-10/0120** – *ITU Liaison Group – DRAFT "Proposed Communication to ITU regarding 4G Wireless Technology"*
- 3) **IEEE L802.16-10/0115r1** – *Use of WiMAX Forum Mobile Radio Specification in IEEE Std 802.16*
- 4) **IEEE L802.16-10/0117r3** – *Call for Comments on draft IEEE Contribution toward Recommendation ITU-R M.[IMT.RSPEC]*

Moved by Takashi Shono, seconded by Jong-Kae Fwu.

Approve: 35. Disapprove: 0. Abstain: 0.

The motion carries.

MEF Response Ad Hoc

Peretz Feder presented *L802.16-10/0122r2*.

Motion (22:08h): *“To forward the content of slides 8 and 9 in L80216-10-0122r2 as the proposed Liaison statement to the MEF in response to L802.16-10/0110 and authorize the WG Chair to make any necessary editorial modifications.”*

Moved by Peretz Feder, seconded by Brian Kiernan.

Approve: 29 Disapprove: 0 Abstain: 0

The motion is approved.

Future Sessions

<reference <http://ieee802.org/16/calendar.html>>

- Session #71 (Interim): 10-13 January 2011 in Taipei (visa information provided in *IEEE C802.16-10/0036*)
 Session #72 (Plenary): 14-17 March 2011 in Singapore with IEEE 802 Plenary Session.
 Session #73 (Interim): 16-19 May 2011 in Lake Louise, Alberta, Canada (pending venue agreement finalization)
 Session #74 (Plenary): 18-21 July 2011 in San Francisco, California, USA with IEEE 802 Plenary Session.
 Session #75 (Interim): 17-22 September 2011 site selection planned for Session #70. Location still open.
 Proposals solicited; please see IEEE 802.16 Interim Session Guidelines. <reference http://ieee802.org/16/docs/04/80216-04_67.pdf>
 Session #76 (Plenary): 7-10 Nov 2011 in Atlanta, Georgia, USA with IEEE 802 Plenary Session.

Publicity

The Chair reviewed the Session #70 Report.

EC Issues

The Chair reviewed the motions he will make at the closing 802 EC meeting.

New Business

Phil Barber presented a preliminary proposal for a project authorization request for P802.16q to develop an amendment to introduce Advanced Air Interface feature labels, identifiers and internal specification references useful in the development of Protocol Implementation Conformance Statements (*IEEE C802.16-10/0035*).

Goodbyes to Jose Puthenkulam

The Work Group expressed their best wishes to Jose Puthenkulam.

Closing

Motion (22:30 h): *"To adjourn."*

Moved by Rakesh Taori, seconded by Eldad Zeira.
 Motion carries by unanimous consent.

Registration List: IEEE 802.16 Session #70

Updated 2010-11-12 (MT)

130 attendees registered and/or in the attendance logs, including at least 113 with "[participation](#)" credit

Participation Credit	Name \Family	Name \Given	<u>Affiliation*</u>	City	State\Province	Country/ Admin
Yes	Agiwal	Anil	Samsung Electronics	Bangalore		India
Yes	Ahmed	Hanan	Huawei Technologies			
Yes	Al-Kanani	Hassan	NEC	London		UK
Yes	Arrington	Arthur	Air Network Solutions			USA
Yes	Baek	Youngkyo	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Barber	Phillip	Huawei	Plano	TX	USA
Yes	Bratspiess	Inbar	Sequans Communications SA	Tel Aviv		Israel
Yes	Cha	Jaesun	ETRI	Daejeon		Korea
Yes	Chang	Kim	Huawei Technologies Co., Ltd.			
Yes	Chang	Sung-Cheol	ETRI	Daejeon		Korea
Yes	Chang	YoungBin	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Chayat	Naftali	Alvarion Ltd.	Tel Aviv		Israel
Yes	Chayer	Rémi	StrateMax	St-Hubert	PQ	Canada
Yes	Chen	Bin	Huawei			
Yes	Chen	You-lin	National Chiao Tung University			
Yes	Chen	Yung-Han	ITRI	Chutung, Hsinchu		Taiwan
Yes	Chen	Yuqin	ZTE Corporation	Shenzhen	Guangdong	China
Yes	Chien	Chun-Che	Institute for Information Industry	Taipei City		Taiwan
Yes	Cho	HanGyu	LG ELECTRONICS	Seoul		Korea
Yes	Cho	Heejeong	LG ELECTRONICS	Anyang	Gyeonggi-do	Korea

Yes	Cho	Jaeweon	Samsung Electronics	Suwon	Gyeonggi	Korea
Yes	Cho	Youngbo	Samsung Electronics	Suwon-si	Gyeonggi-do	Korea
Yes	Choi	Jinsoo	LG Electronics			Korea
No	Choi	Yang-Seok	Intel Corporation	Hillsboro	OR	USA
Yes	Chou	Chao-Chin (Kelvin)	MediaTek Inc.	Hsinchu		Taiwan
Yes	Chou	Ching-Chun	National Taiwan University	Taipei	Taiwan	Taiwan
No	Chou	Joey	Intel	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	Crowley	Steven	NTT DoCoMo, Inc.			USA
Yes	Cummings	George	Huawei	Gilbert	AZ	USA
Yes	Dhaliwal	Upkar	Future Wireless Technologies	San Diego	CA	USA
Yes	Fan	Linghang	NEC	London		UK
Yes	Fang	Yu-Chuan	ITRI International Inc.	Chutung Hsinchu	Taiwan	Taiwan
Yes	Feder	Peretz	Alcatel-Lucent	Whippany	NJ	USA
Yes	Fwu	Jong-Kae (JK)	Intel Corporation	Santa Clara	CA	USA
Yes	Gal	Dan	Alcatel-Lucent	Morris Plains	NJ	USA
Yes	Ghasemi	Amir	Communications Research Centre, Canada	Ottawa	Ontario	Canada
Yes	Godfrey	Tim	Electric Power Research Institute, Inc. (EPRI)			
Yes	Gundlach	Michael	Nokia Siemens Networks	Munich		Germany
Yes	Himayat	Nageen	Intel Corporation	Santa Clara	CA	USA
Yes	Hoang	Anh	Institute for Infocomm Research			

Yes	Hsiao	Ying-Chuan	Industrial Technology Research Institute	Chutung, Hsinchu	Taiwan	Taiwan
Yes	Hsieh	Ching-Tarnng	Industrial Technology Research Institute	Hsinchu		Taiwan
No	Hsieh	Yu-Tao	ITRI	Hsinchu		Taiwan
Yes	Hsu	Chun-Yen	Institute for Information Industry	Taipei	NIL	Taiwan
Yes	Jan	Yih Guang	Tamkang University	Taipei		Taiwan
Yes	Jee	Junghoon	Electronics and Telecommunications Research Institute (ETRI)	Daejeon	Chungcheongnam-do	Korea
No	Jeon	Hongseok	Electronics and Telecommunications Research Institute (ETRI)	Daejeon	Chung-Nam	Korea
No	Johnsson	Kerstin	Intel Corporation	Santa Clara	CA	USA
Yes	Josiam	Kaushik	Samsung Telecommunications America	Richardson	Texas	USA
Yes	Juang	Rong-Terng	ITRI	Hsinchu		Taiwan
No	Jung	Inuk	LG Electronics	Anyang	Gyeongkido	Korea
Yes	Jung	Soojung	ETRI			Korea
Yes	Kang	Heewon	Samsung Electronics			Korea
Yes	Kang	Hyunjeong	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Kang	Jiwon	LG ELECTRONICS	Anyang	Kyungki	Korea
Yes	Kanzaki	Hajime	Hitachi Ltd.	Kokubunji-shi	Tokyo	Japan
Yes	Khojastepour	Mohammad	NEC Laboratories America, Inc.	Princeton	NJ	USA
Yes	Khoryaev	Alexey	Intel Corporation	Nizhny Novgorod		Russia
Yes	Kiernan	Brian	InterDigital Communications	King of Prussia	PA	USA
Yes	Kim	EunKyo	TTA	Sungnam-city	Gyeonggi-do	Korea

Yes	Kim	Eunkyung	ETRI	Daejeon	Daejeon	Korea
Yes	Kim	Hokyung	Samsung Electronics			
Yes	Kim	Jeongki	LG Electronics	Anyang-Shi	Gyeonggi-do	Korea
Yes	Kim	Namgi	Kyonggi Univ.	suwon	Kyounggi	Korea
Yes	Kim	Sangheon	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Kim	Taeyoung	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Kwak	Jin-Sam	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
No++	Lee	Ju	802.16n			KR
Yes	Lee	Yang-Han	TKU	Taipei	Taipei	Taiwan
Yes	Li	Ying	Samsung Electronics	Richardson	TX	USA
Yes	Liao	Pei-Kai	MediaTek Inc.			Taiwan
Yes	Lin	Ping-Chen	NTUST			
Yes	Lin	Yi-Ting	Institute for Information Industry	Taipei		Taiwan
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Yes	Marks	Roger	WiMAX Forum	Denver	CO	USA
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No	Nigam	Anshuman	Samsung	Bangalore		India
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Yes	Park	Jeongho	Samsung Electronics	Suwon	Gyunggi-Do	Korea
Yes	Park	Kyujin	LG Electronics			
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Yes	Probasco	Scott	Nokia	Irving	TX	USA

Yes	Puthenkulam	Jose		Beaverton	OR	USA
Yes	Qin	Fei	Datang Mobile Communication	Beijing		China
Yes	Ramakrishna	Sudhir	Samsung Electronics	Richardson	TX	USA
Yes	Roh	Wonil	Samsung Electronics	Suwon-city	Gyeonggi-do	Korea
Yes	Sambasivan	Sam	AT&T	Austin	TX	USA
No	Sarkas	Harry	Landis+Gyr Worldwide	Alpharetta	GA	USA
Yes	Sayeedi	Shahab	motorola	Arlington Heights	IL	USA
Yes	Schumacher	Joseph	Motorola, Inc.	Arlington Heights	IL	USA
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Yes	Seol	Ji-Yun	Samsung Electronics Co., LTD.	SeongNam-si	Gyeonggi-do	Korea
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Yes	Sheynkman	Peter	RuggedCom, Inc.			
Yes	Shono	Takashi	Intel Corporation	Tokyo	Tokyo	Japan
Yes	Son	Yeongmoon	Samsung Electronics	Suwon-city	Kyeonggi-do	Korea
No	Srinivasan	Roshni	Intel Corporation	Santa Clara	CA	USA
Yes	Takai	Mineo	Space-Time Engineering	Rancho Palos Verdes	CA	USA
Yes	Talukdar	Anup	Motorola, Inc.			USA
No	Talwar	Shilpa	Intel Corporation	Santa Clara	CA	USA
Yes	Taori	Rakesh	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Teo	Joseph	Institute for Infocomm Research	Singapore	Singapore	Singapore
Yes	Triglia	Alessandro	OSS Nokalva			Italy
Yes	Tsai	Chang-Lan	ITRI	Hsinchu	Taiwan	Taiwan
Yes	Tsai	Chia-Lung	ITRI	Hsinchu		Taiwan
Yes	Tsai	Tsung-Yu	Institute for Information Industry	Taipei City		Taiwan

Yes	Tseng	Chuan-Yuan	National Ilan University			
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Yes	Wang	Limei	Huawei Technologies Co., Ltd.			China
Yes	Wang	Shao-Cheng	Intel	hillsboro	or	USA
Yes	Wei	Hung-Yu	National Taiwan University	Taipei		Taiwan
Yes	Yang	Rongzhen	Intel Corp.	Shanghai	Shanghai	China
Yes	Yanover	Vladimir	Alvarion	Tel-Aviv	N/A	Israel
Yes	Zein	Nader	NEC Corporation	London		UK
Yes	Zeira	Eldad	InterDigital Communications LLC	Melville	NY	USA
Yes	Zheng	Yan-Xiu	ITRI			Taiwan
Yes	Zhou	Lei	Samsung Electronics	Beijing		China

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The IEEE 802.16 Working Group on Broadband Wireless Access Standards

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Number of members: 226

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Shekalim	Peretz	Runcom	Rishon Lezion	Rishon Lezion	Israel
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Sun	Bo	ZTE Corporation			China
Takai	Mineo	Space-Time Engineering	Rancho Palos Verdes	CA	USA
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Tsai	Chia-Lung	ITRI	Hsinchu		Taiwan
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Wang	Ping	Intel Corporation	Beijing	Beijing	China
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Xie	Feng	ZTE Corporation			China
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