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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 #69</b>
Date Submitted	<b>20 September 2010</b>
Source	Scott Probasco                      Voice: 1-469-939-9378 Nokia, Inc. <a href="mailto:scott.probasco@nokia.com">scott.probasco@nokia.com</a>
Abstract	IEEE 802.16 Session #69 Minutes (St Petersburg, Russia)
Purpose	To record the minutes of the IEEE 802.16 Working Group Opening and Closing Plenary meetings at Session #69. For approval at Session #70
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 #69

*IEEE 802.16 Working Group  
St Petersburg, Russia  
September 13 - 16, 2010*

### IEEE 802.16 Session #69 Opening Plenary Meeting

Monday September 13, 2010, 13:13 – 15:22 hours.

#### Opening

The Working Group (WG) meeting was called to order by Dr. Roger Marks at 13:13 hours local time. He welcomed the attendees to Session #69 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 was introduced in absence. The Chair provided information related to logistics and meeting registration.

Session host Alexander Maltsev welcomed the participants to St Petersburg and provided logistical information about the meeting and local area.

#### Welcome Message

Elena Ivanova, Chief, External Information Exchange Unit, Committee on IT and Communications, St. Petersburg Administration, addressed the meeting. Ms Ivanova welcomed the participants to Russia, wished them to have a successful meeting, and also encouraged the participants to enjoy St Petersburg.

#### Membership and Voting

The Chair described types of Membership in the WG as well as the rights and obligations of Membership in the WG. 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](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 were advised to verify that a Voting Token was printed on their registration badge.

#### Attendance

The attendees were informed that acquiring and retaining Membership (reference <<http://iee802.org/16/membership.html>>) 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. 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 #69 of IEEE 802.16 WG. The Chair noted that attendance credit will be granted to 802.16 Members for participation in IEEE 802.21.

#### Approvals

The Chair reviewed the agenda and asked for comments or concerns. Adjustments were made to the agenda (reference <<http://iee802.org/16/meetings/mtg69/opening.html>>).

**Motion** (13:35 h): “To approve the agenda of Session #69.”

Moved by Ron Murias, seconded by Brian Kiernan.  
Motion approved by unanimous consent.

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

**Motion** (13:38 h): “*To approve the Minutes of Session #67 (IEEE 802.16-10/0044).*”

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 802.16-10/0049* 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, if anyone wanted to speak, 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, 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 LoAs (Letters of Assurances) 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 <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.

The Chair noted that 802.16h has been published by IEEE on July 30, 2010 as a new amendment to 802.16-2009. The current version is 802.16-2009 as amended by 802.16j-2009 and 802.16h-2010. This new amendment will be available through the IEEE Get 802 program in approximately 6 months.

The Chair noted the summary report <<http://wirelessman.org/meetings/mtg68/report.html>> of Session #68 and also <<http://wirelessman.org/meetings/mtg685/report.html>> of Session #68.5. He further noted the Session #69 Document Guide and the Session #69 Schedule for the week, each of which was accessible from the wirelessman.org server.

## Maintenance Task Group Report

Chairman 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-10/0017r3*. Joe noted that the one maintenance comment 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-09/0007r9. A liaison statement has been received from the WiMAX Forum, IEEE L802.16-10/0088r1, which will be addressed during this Session.

## TGm Report

Brian Kiernan presented the report *IEEE 802.16m-10/0028r1*. Brian discussed the results of the first Sponsor Ballot recirculation which closed on September 8. The approval rate from this ballot is 67% thus the scope of the subsequent recirculation ballot will include the entire document as open for comment. The plan for the week was discussed. The calendar for breakout sessions, the agenda and room allocations were reviewed.

The WG Chair noted that a list of disapprove voters including their affiliation will be created since this will help the Task Group associate comments with disapprove votes. Roger noted that this is a change from the previous operational practice of the Work Group, and therefore he has investigated this with the IEEE-SA ProCom Chairman and IEEE staff before taking this decision.

## Project Planning Ad Hoc Committee

Jose Puthenkulam presented the report *IEEE 802.16ppc-10/0012*. The M2M PAR is expected to be approved at end of September. Other study items under active discussion are Hierarchical Networks and also TDD Co-existence. 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 before this Session. The M2M System Requirements will be updated during this Session.

Brian Kiernan noted that a joint ATIS-TIA activity has recently been established which is also focusing on TDD coexistence. Reza Arefi noted that ITU WP5A has two documents under development on M2M topic.

## GRIDMAN Task Group Report

Tim Godfrey was not present. Eldad Zeira was Acting Chair of the GRIDMAN Task Group for the Session. Eldad presented the report *IEEE 802.16gman-10/0036*.

The TG will focus on further developing 802.16n System Requirements Document, IEEE 802.16gman-10/0024.

## Liaison

### ITU-R Liaison Group

Reza Arefi presented the report *IEEE L802.16-10/0087r1*. Reza reviewed relevant documents for the session, input documents, proposed objectives, agenda for the week, and the meeting schedule including room assignment.

Input documents include:

IEEE L802.16-10/0083 “PROCESS AND THE USE OF GLOBAL CORE SPECIFICATION (GCS), REFERENCES AND RELATED CERTIFICATIONS IN CONJUNCTION WITH RECOMMENDATION ITU-R M.[IMT.RSPEC]” Source ITU-R WP5D

IEEE L802.16-10/0082 “LIAISON TO EXTERNAL ORGANIZATIONS ON THE SCHEDULE AND TECHNICAL AND ADMINISTRATIVE INPUTS FOR THE COMPLETION OF THE FIRST RELEASE OF RECOMMENDATION ITU-R M.[IMT.RSPEC]” Source ITU-R WP5D.

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 Lei Wang, seconded by J.K. Fwu. Motion is approved by unanimous consent.

### Other Liaisons

The Chair noted IEEE L802.16-10/0081 from Metro Ethernet Forum, and requested that TGm should review this liaison.

The Chair noted IEEE L802.16-10/0084 from Japan MIC and IEEE L802.16-10/0085 from TTA, and asked ITU Liaison group to review these.

Jose Puthenkulam recommended that TGm review the security aspects of P802.16m and communicate these to IETF. It was agreed that TGm would create a draft.

## Charge to Task Groups, Schedule for the week

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

## Future Sessions

- Session #70 (Plenary): 8-11 November 2010 in Dallas, Texas, USA with IEEE 802 Plenary Session.  
Session #71 (Interim): 10-13 January 2011 in Taipei.  
Session #72 (Plenary): 14-17 March 2011 in Singapore with IEEE 802 Plenary Session.  
Session #73 (Interim): 16-19 May 2011 in Banff, Alberta, Canada. A corporate sponsor is solicited for this session, if interested see Ron 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 by Session #70. Proposals solicited; please see IEEE 802.16 Interim Session Guidelines <reference [http://iee802.org/16/docs/04/80216-04\\_67.pdf](http://iee802.org/16/docs/04/80216-04_67.pdf)>  
Session #76 (Plenary): 7-10 Nov 2011 in Atlanta, Georgia, USA with IEEE 802 Plenary Session

## New Business

Alexandra Lyaplina provided information on local transportation & relevant topics for the participants.

## Closing

**Motion** (15.22h): *“To adjourn the Opening Plenary.”*

Moved by Ron Murias, seconded by Brian Kiernan.

Motion approved by unanimous consent.

## IEEE 802.16 Session #69 Closing Plenary Meeting

Thursday, September 16, 2010, 19:05 – 21:17

### Opening

The Chair of the 802.16 WG called the meeting to order at 19:05 local time. He welcomed the attendees and reviewed the draft Closing Plenary agenda (reference <<http://ieee802.org/16/meetings/mtg69/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.

**Motion** (19:12h) “To approve the agenda.”

Moved by Brian Kiernan, seconded by Lei Wang.

The motion passed without objection.

### Session #69 Issues

The Chair commented that attendance is recorded both by session registration and by the IMAT system. This meeting had approximately 108 persons attending the 802.16 session.

The Chair thanked member host Alexander Maltsev and also Alexandra Lyaplina for arranging a very nice meeting.

### Maintenance Task Group

Joe Schumacher presented the report *IEEE 802.16maint-10/0019r1*. The task group processed a comment from the P802.16m Sponsor Ballot. It also reviewed a liaison letter from the WiMAX Forum TWG (IEEE L802.16-10/0088r1) and drafted a reply in *IEEE L802.16-10/0092*. This reply liaison was reviewed and updated in the closing plenary to revision 1.

**Motion** (19:32h): “To forward L802.16-10/0092r1 as the proposed Liaison statement to the WiMAX TWG in response to L802.16-10/0088r1 and authorize the WG Chair to make any necessary editorial modifications.”

Moved by Joe Schumacher, seconded by Ron Murias.

Approve: 44 Disapprove: 0 Abstain: 0

The motion passed.

The current Maintenance database is IEEE 802.16maint-09/0007r10.

Based on the input Liaison statement from the WiMAX Forum, the Maintenance Task Group Chair will submit 3 comments into the next P802.16m recirculation ballot.

### GRIDMAN Task Group

Eldad Zeira presented the report *IEEE 802.16gman-10/0039r1*. In this meeting, *IEEE 802.16gman-10/0038r1* had been approved by the Task Group as a basis for “System Architecture Reference Model (SARM).” A work plan was established and agreed.

A Call for Contributions for SARM will be issued. Further comments on the SRD are invited, in particular addressing 802.16n performance requirements.

### TGm

Brian Kiernan presented the report *IEEE 802.16m-10/0030r1*. All comments from the Sponsor Ballot were resolved. The resolutions were recorded in *IEEE 802.16-10/0042r3*. The current ballot status was reviewed.

**Motion** (19:41h): *“To approve the Session #69 resolutions to comments contained in 802.16-10/0047r3 and to authorize the editor to create the new draft P802.16m/D9”*

*Moved by Brian Kiernan, seconded by Ron Murias*

Approve: 53 Disapprove: 0 Abstain: 0

*The motion is approved.*

**Motion** (19:53h): *“Request the WG Chair initiate a recirculation Sponsor Ballot on P802.16m/D9 in which the entire document is open for comment.”*

*The motion recorded above was moved by Brian Kiernan, seconded by Kiseon Ryu.*

Approve: 51, Disapprove: 0 Abstain: 0

*The motion is approved.*

The project work plan was reviewed, and it was agreed to conduct a single recirculation ballot before the next Session.

The task group drafted Liaison Statements to IETF and MEF, these will be discussed under the Liaison agenda topic.

The Chair provided C80216-10/0032 which contains a list of disapprove votes in the P802.16m Sponsor Ballot and their affiliation.

## WG Project Planning Ad Hoc

Jose Puthenkulam presented the report *IEEE 802.16pcc-10/0014r1*. Input contributions on M2M system requirements were reviewed. The group also discussed the M2M related work in ITU-R WP5A. A Liaison statement was drafted in *IEEE 802.16ppc-10/0013*.

A draft of 802.16p Machine to Machine System Requirements Document was created in *IEEE 802.16ppc-10/0011r2*. A call for contributions will be issued to update the document.

Study items in progress include Hierarchical Networks and TDD Coexistence. A call for contributions will be issued on these topics. The committee agreed to start a new study item on “Vision for Systems Beyond IMT-Advanced.” There was discussion of the suggestion that, for ITU applicability, any such report should address application drivers rather than new technical concepts.

The 802.16 Project Planning Map was reviewed.

## Liaison

### ITU-R Liaison Group

Takashi Shono presented the report *IEEE L802.16-10/0100r1*. He had served as Acting Chair during the latter part of the week.

Incoming liaison statements had been reviewed. Outgoing liaisons had been prepared.

**Motion** (20:25h): *“To approve the following documents and authorize the WG Chair to forward them to their respective recipients subject to any editorial corrections including additions to the cc list, and, in IEEE L802.16-10/0098r1, allowing for the deletion 802.16 specific terms and definitions.”*

- 1) *IEEE L802.16-10/0073r1 – Form “A” Notification of intention to provide a Global Core Specification or directly incorporated specification for a new radio interface for Recommendation ITU-R M.[IMT.RSPEC]*
- 2) *IEEE L802.16-10/0091r1 – FORMAT OF REFERENCES IN PDNR M.[IMT.RSPEC]*
- 3) *IEEE L802.16-10/0093r1 – Liaison statement to ARIB concerning IMT-Advanced administrative documentation,*
- 4) *IEEE L802.16-10/0094r1 – Liaison statement to TTA, cc to ARIB, WirelessMAN-Advanced Update Process*
- 5) *IEEE L802.16-10/0095r1 - Liaison statement to TTA concerning IMT-Advanced administrative documentation*
- 6) *IEEE L802.16-10/0098r1 – VOCABULARY TERMS RELATED TO IEEE 802.16*
- 7) *IEEE L802.16-10/0097r1 – INPUT TOWARDS WORKING DOCUMENTS ON OBJECTIVES AND REQUIREMENTS FOR MOBILE WIRELESS ACCESS SYSTEMS FOR COMMUNICATIONS TO A LARGE NUMBER OF UBIQUITOUS SENSORS*

*AND/OR ACTUATORS SCATTERED OVER WIDE AREAS IN THE LAND MOBILE SERVICE*

- 8) *IEEE L802.16-10/0089 – Certification of references and transposition for M.1457 Rev 10, Section 5.6*

**Motion** (20:30) moved by Takashi Shono, seconded by Jaeweon Cho.

Approve: 36. Disapprove: 0. Abstain: 0.

The motion carries.

## IETF

Brian Kiernan presented a draft liaison statement *L802.16-10/0099d2*, “To IETF for review of IEEE 802.16m Draft Standard.”

**Motion** (20:42h): “*To approve L802.16-10/0099d2 and authorize the WG Chair to forward it to the IETF subject to any editorial corrections including additions to the cc list.*”

Moved by Brian Kiernan, seconded by Lei Wang.

Approve: 37 Disapprove: 0 Abstain: 0

The motion is approved.

## MEF

Brian presented a draft liaison statement (*IEEE L802.16-10/0102*) to MEF on the review of MEF 22.1. This Liaison statement was reviewed and updated to revision 1 in the closing plenary.

**Motion** (20:42h): “*To approve L802.16-10/0102r1 and authorize the WG Chair to forward it to MEF subject to any editorial corrections including additions to the cc list.*”

Moved by Brian Kiernan, seconded by Lei Wang.

Approve: 29 Disapprove: 0 Abstain: 0

The motion is approved.

## Future Sessions

<reference <http://iee802.org/16/calendar.html>>

- Session #70 (Plenary): 8-11 November 2010 in Dallas, Texas, USA with IEEE 802 Plenary Session.  
 Session #71 (Interim): 10-13 January 2011 in Taipei (visa information provided in *IEEE C802.16-10/0031*)  
 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 to be determined no later than Session #70.  
 Proposals solicited; please see IEEE 802.16 Interim Session Guidelines. <reference [http://iee802.org/16/docs/04/80216-04\\_67.pdf](http://iee802.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 #69 Report.



## **WG Issues**

### **Editor's Meeting:**

The editors meeting was cancelled.

## **New Business**

### **Treasurers Report**

The Chair reviewed the report in *IEEE 802.16-10/0048*.

## **Closing**

**Motion** (21:17 h): *"To adjourn."*

Moved by Ron Murias, seconded by Philip Barber.

Motion carries by unanimous consent.

## Registration List: IEEE 802.16 Session #69

DRAFT: Updated 2010-09-16

108 attendees registered and/or in the attendance logs, including 108 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	Ahn	Woo-Geun	KAIST	Daejeon	Daejeon	Korea
Yes	Al-Kanani	Hassan	NEC	London		UK
Yes	Arefi	Reza	Intel Corporation	Hillsboro	OR	USA
Yes	Baek	Youngkyo	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Barber	Phillip	Huawei	Plano	TX	USA
Yes	Cha	Jaesun	ETRI	Daejeon		Korea
Yes	Chang	Sung-Cheol	ETRI	Daejeon		Korea
Yes	Chang	Woohyuk	KAIST	Daejeon	Daejeon	Korea
Yes	Chang	YoungBin	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Chen	Whai-En	National Ilan University	I-Lan	Taiwan	Taiwan
Yes	Chen	Yung-Han	ITRI	Chutung, Hsinchu		Taiwan
Yes	Cheng	Shih-Yuan	National Ilan University	I-Lan		Taiwan
Yes	Chervyakov	Andrey	Intel Corporation	Nizhny Novgorod	Nizhegorodsky region	Russia
Yes	Chien	Chun-Che	Institute for Information Industry	Taipei City		Taiwan
Yes	Cho	Jaeweon	Samsung Electronics	Suwon	Gyeonggi	Korea
Yes	Cho	Youngbo	Samsung Electronics	Suwon-si	Gyeonggi-do	Korea
Yes	Choi	Jinsoo	LG Electronics			Korea
Yes	Choi	Yang-Seok	Intel Corporation	Hillsboro	OR	USA
Yes	Chou	Chao-Chin (Kelvin)	MediaTek Inc.	Hsinchu		Taiwan

Yes	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	Cummings	George	Huawei	Gilbert	AZ	USA
Yes	Fan	Linghang	NEC	London		UK
Yes	Fang	Yu-Chuan	ITRI International Inc.	Chutung Hsinchu	Taiwan	Taiwan
Yes	Fwu	Jong-Kae (JK)	Intel Corporation	Santa Clara	CA	USA
Yes	Gal	Dan	Alcatel-Lucent	Morris Plains	NJ	USA
Yes	Guanghai	Fan	Huawei Technologies Co., Ltd.	Shenzhen	Guangdong	China
Yes	Gundlach	Michael	Nokia Siemens Networks	Munich		Germany
Yes	Hillery	William	Motorola, Inc.	Arlington Heights	IL	USA
Yes	Himayat	Nageen	Intel Corporation	Santa Clara	CA	USA
Yes	Hsieh	Yu-Tao	ITRI	Hsinchu		Taiwan
Yes	Hsu	Chun-Yen	Institute for Information Industry	Taipei	NIL	Taiwan
Yes	Hsu	Jen-Yuan	ITRI	Hsinchu		Taiwan
Yes	Hsuan	Yi	Intel Corporation	Santa Clara	CA	USA
Yes	Johnsson	Kerstin	Intel Corporation	Santa Clara	CA	USA
Yes	Juang	Rong-Terng	ITRI	Hsinchu		Taiwan
Yes	Julka	Vibhor	Huawei Technologies Co., Ltd.			USA
Yes	Jung	Inuk	LG Electronics	Anyang	Gyeongkido	Korea
Yes	Jung	Soojung	ETRI			Korea
Yes	Kaimalettu	Sunil	CEWiT			India
Yes	Kang	Heewon	Samsung Electronics			Korea
Yes	Kang	Hyunjeong	Samsung Electronics	Suwon	Gyeonggi-do	Korea

Yes	Kang	Seunghyun	LG Electronics	Anyang-shi	Gyeonggi-do	Korea
Yes	Kanzaki	Hajime	Hitachi Ltd.	Kokubunji-shi	Tokyo	Japan
Yes	Khoryaev	Alexey	Intel Corporation	Nizhny Novgorod		Russia
Yes	Kiernan	Brian	InterDigital Communications	King of Prussia	PA	USA
Yes	Kim	Eunkyung	ETRI	Daejeon	Daejeon	Korea
Yes	Kim	Hokyung	Samsung Electronics			Korea
Yes	Kim	Sangheon	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Klutto Milleth	J.	CEWiT	Chennai	Tamilnadu	India
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	Youn-Tai	Institute for Information Industry	Taipei	Taiwan	Taiwan
Yes	Liao	Pei-Kai	MediaTek Inc.			Taiwan
Yes	Lin	Hsin-Piao	National Taipei University of Technology	Taipei		Taiwan
Yes	Lin	Jia	Huawei Technologies Co., Ltd.	Shenzhen	GuangDong	China
Yes	Lin	Yi-Ting	Institute for Information Industry	Taipei		Taiwan
Yes	Liu	Yang	ZTE Corporation	Shenzhen	Guangdong	China
Yes	Madihian	Mohammad	MEDIWAVE LLC		NJ	USA
Yes	Maltsev	Alexander	Intel Corporation			Russia
Yes	Marks	Roger	WiMAX Forum	Denver	CO	USA
Yes	Mo	Junxian	Huawei Technologies Co., Ltd.			

Yes	Mohanty	Shantidev	Intel corporation			USA
Yes	Murias	Ronald	InterDigital, LLC	Calgary	AB	Canada
Yes	Nguyen	An	DHS/NCS	Falls Church	VA	USA
Yes	Nigam	Anshuman	Samsung	Bangalore		India
Yes	Nohara	Mitsuo	KDDI R and D Laboratories Inc.	Chiyoda-ku	Tokyo	Japan
Yes	Papathanassiou	Apostolos	Intel Corporation			USA
Yes	Park	Giwon	LG ELECTRONICS	Anyang-Shi	Gyeonggi-do	Korea
Yes	Park	Jeongho	Samsung Electronics	Suwon	Gyeonggi-Do	Korea
Yes	Park	Sung Ho	LG Electronics	Anyang	Gyeonggi-do	Korea
Yes	Probasco	Scott	Nokia	Irving	TX	USA
Yes	Puthenkulam	Jose	Intel Corporation	Hillsboro	OR	USA
Yes	Ryu	Kiseon	LG Electronics			Korea
Yes	Sayeedi	Shahab	motorola	Arlington Heights	IL	USA
Yes	Schumacher	Joseph	Motorola, Inc.	Arlington Heights	IL	USA
Yes	Seol	Ji-Yun	Samsung Electronics Co., LTD.	SeongNam-si	Gyeonggi-do	Korea
Yes	Shilov	Mikhail	Intel Corporation	Nizhny Novgorod	Nizhny Novgorod region	Russia
Yes	Shono	Takashi	Intel Corporation	Tokyo	Tokyo	Japan
Yes	Skeba	Kirk	Intel Corporation			USA
Yes	Son	Yeongmoon	Samsung Electronics	Suwon-city	Kyeonggi-do	Korea
Yes	Talwar	Shilpa	Intel Corporation	Santa Clara	CA	USA
Yes	Tao	Ming-Hung	ITRI	HsinChu		Taiwan
Yes	Taori	Rakesh	Samsung Electronics	Suwon	Gyeonggi-do	Korea
Yes	Teo	Joseph	Institute for Infocomm Research	Singapore	Singapore	Singapore
Yes	Ting	Pang-An	ITRI			Taiwan
Yes	Triglia	Alessandro	OSS Nokalva			Italy
Yes	Tsai	Chang-Lan	ITRI	Hsinchu	Taiwan	Taiwan

Yes	Tsai	Tsung-Yu	Institute for Information Industry	Taipei City		Taiwan
Yes	Tzavidas	Stavros	Motorola, Inc.	Arlington Heights	Illinois	USA
Yes	Venkatachalam	Muthaiah	Intel	Beaverton	OR	USA
Yes	Wang	Haiguang	Institute for Infocomm Research			Singapore
Yes	Wang	Lei	InterDigital Communications	San Diego	CA	USA
Yes	Wang	Shao-Cheng	Intel	hillsboro	or	US
Yes	Wang	Yanhong	Huawei Technologies Co., Ltd.	San Diego	CA	USA
Yes	Ward	Lisa	Rohde & Schwarz	Portland	OR	USA
Yes	Wu	Jia-Hao	Industrial Technology Research Institute	Hsinchu	Hsinchu	Taiwan
Yes	Yang	Xiangying	Intel Corporation	Hillsboro	OR	USA
Yes	Yu	Hyunkyuu	Samsung Electronics	Suwon-si	Gyeonggi-do	Korea
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

\* **Affiliation** per the "Affiliation" field on the attendance log form, or subsequent update. "Affiliation" is defined according to the [IEEE-SA affiliation disclosure requirements](#). Note in particular:

#### 11. What if I refuse to disclose my affiliation?

*As outlined in IEEE-SA governance documents, you will lose certain rights. In a working group where voting rights are gained through attendance, no attendance credit will be granted if affiliation isn't declared. Similarly, voting rights are to be removed if affiliation isn't declared.*

+Invalid affiliation disclosure. Accordingly, no participation credit granted.

++Invalid affiliation disclosure, and attendance requirement unmet.

Participation Credit field is tentative, depending on affiliation disclosure, attendance confirmation, etc.