**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **IEEE802.15 WG minutes** | |
| Date Submitted | 17 March, 2011 | |
| Source | [Pat Kinney] [Kinney Consulting, LLC] [Chicago, IL] | Voice: [1.847.960.3715] Fax: [] E-mail: [pat.kinney@ieee.org] |
| Re: | 802.15 Plenary Meeting in Singapore | |
| Abstract | IEEE 802.15 Working Group Minutes | |
| Purpose | Official minutes of the Working Group Session | |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. | |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. | |

**IEEE 802.15 Plenary Meeting – Session #71**

**Marina Bay Sands, Singapore**

**March 14 - 17, 2011**

**Monday, 14 March 2011**

**11:02 AM** The chair, Bob Heile, called the meeting to order.

The chairasked for new attendees to raise their hands; 3 were present.

Announcements:

* Social on Wednesday at 18:30

Chair informed the group of, and displayed the IEEE-SA patent policy presentation slides 0-5 (<http://standards.ieee.org/board/pat/pat-slideset.ppt>).

Chair asked the participants who wished to declare a Letter of Assurance (LoA) or 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 any of the ongoing activities within the 802.15 WG. There were no attendant responses to this call.

Chair displayed and read the standard IEEE Anti-Trust statement.

Rick Alfvin stated the information (IEEE 802.15-11-035-01) on registration requirements and the network information. Basic topics covered were:

* Registration requirements
* Network information
* Attendance sheets
* Voting Tokens
* Voting Rights
* Meeting Video Audio recording – not allowed

802.15 Work Group Membership status (as of 1 Mar 2011):

* 213 voting members
* 31 nearly voters
* 76 aspirants

Future Sessions (15-11-0203-01)

* 8 - 13 May, 2011, Hyatt Grand Champion, Palm Springs, CA, USA
* 17-22 July, 2011, Hyatt Regency, San Francisco, CA,USA
* 18-23 September, 2011, Convention Center, Okinawa, Japan
* 6-11 November, 2011, Hyatt Regency, Atlanta, GA, USA
* 15-20 January, 2012, Hyatt Regency Jacksonville, Jacksonville, FL
* 11-16 March, 2012, TBD (either Melbourne, AU or Big Island, HI)
* 13-18 May, 2012, Hyatt Regency Atlanta, Atlanta, GA, USA
* 15-20 July, 2012, Grand Hyatt Manchester, San Diego, CA, USA
* 9-14 September, 2012,Hilton Waikoloa Village, Big Island, HI, USA
* 11-16 November, 2012, Grand Hyatt San Antonio, San Antonio, TX, USA

Chair presented the EC Meeting Report (IEEE 802.15-11-0218-00)

J Barr presented the Treasurer Report (IEEE 802.15-11-0204-00)

* January 16, 2011 - $359,150
  + IEEE Account: $340,009.89
  + Face-to-Face: $19,140
* March 12, 2011 - $390,172
  + IEEE Account: $340,009.89 + 211.77 = $340,221.66
  + Face-to-Face: $19,140 + 30,810 + $49,950
  + (Interest rate is 0.38%)

Chair asked to have the WG approve the agenda (document IEEE 15-10-0134-02-0000). Rick Alfvin moved *to approve the agenda*, with James Gilb seconding the motion. Following no objection the agenda was approved.

Peter Murray moved *to approve the previous meeting minutes (document 15-11-028-00-0000)* and Rick Alfvin seconded the motion. Following neither discussion nor objection the minutes were approved. There were no matters resulting from the previous minutes

802 Architecture report by James Gilb

* Comment resolutions will be assigned
* Major concern on issues due to 64-bit addresses

Radio regulatory by Mike Lynch

* Writing a response to communications report for Smart Grid

Task group reports follow:

Pat Kinney presented the status for TG4e (MAC enhancement)

The unaudited results for LB69 (TG4e draft) are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
|  | LB60 | LB69 | Aggregate |
| VOTERS | 217 | 217 | 217 |
| VOTED | 164 | 71 | 177 |
| YES | 128 | 62 | 150 |
| ABSTAIN | 11 | 2 | 12 |
| NO | 25 | 7 | 15 |
| % VOTERS | 75.6% | 32.72% | 81.57% |
| % YES | 83.66% | 89.86% | 90.91% |
| % ABSTAIN | 6.71% | 2.82% | 6.78% |

TG4e goals for week:

* Resolve comments from LB69
* update draft as per resolutions and request WG for recirc

Tim Harrington gave TG4f (RFID) goals

            LB68 Aggregate Tally

Voters 208 208

Voted   171      181

YES 132 160

ABSTAIN 16 12

NO 23  9

% Voters 82.21% 87.02%

% YES       85.16% 94.67%

% ABSTAIN 9.36% 6.63%

LB68 Comment Tally:

Total Comments = 219

Technical = 100

Editorial = 117

General = 2

TG4f goals for week:

* Resolve comments from LB68

P Beecher gave TG4g (SUN) goals

* Resolve comments from LB67
* update draft as per resolutions

P Kinney gave TG4h (corrigenda) goals

* effort on hold pending TG4i success

J Gilb gave TG4i (revision) goals (doc 15-10-867)

* resolve comments from recirc of sponsor ballot

R Krasinski gave TG4j report:

* hear responses for CFA
* issue a CFP

D Howard gave TG4k report:

* call for officers
* hearing responses for CFA
* issue a CFP

Arthur Astrin gave BAN TG6 review

* + - Successful recirc with 600 comments
    - Goal is to go out for recirc after this session

Eun Tae Won gave TG7 goals

* Send draft out for recirculation

SG PSC by Peter Murray

* reworking PAR and 5C

SG4TV by Choi

* hearing presentations

TerraHz IG by Tomas Kuerner

* + Presentations on technology and WRC regulations

SRU by Shoichi Kitazawa

* 2 presentations will be heard

WNG by P Kinney

* Discussion on Operation Manual

Rules by Pat Kinney

* Will not have meeting on Tuesday
* Announced that a motion to adopt the LMSC P&P for WGs and the 802.15 Operations Manual will be made at the closing plenary on Thursday

AoB - none

**12:08 PM** The chair recessed the meeting

Wednesday, 16 Mar 2011

**10:34** Bob Heile, WG chair called the meeting to order.

WG Chair made announcements concerning social and logistics.

**10:36** WG18 liaison by J Notor

* Presentation on TVWS regulations in Europe
* ITU-R submission, 18-11-24-00

**10:38** TG4e by Pat Kinney (Kinney Consulting LLC)

* Working on comment resolution, capturing the resolutions in document 15-11-0205

**10:40** TG4f

* LB69 comment resolution effort
* Goal of completing resolution and draft this session

**10:41** TG4g by Phil Beecher

* Working on comment resolutions

**10:41** TG4h by Pat Kinney (Kinney Consulting LLC)

* TG4h is on hold pending TG4i progress

10:41 TG4i by James Gilb

* Comments have been resolved

10:42 TG4j by R Krasinski

* call for proposal

10:43 TG4k by D Howard

* heard all presentation from call for app

preparing documents for call for proposals

10:45 TG6-BAN by Art Astrin

* Working on comment resolutions down to 55

**10:46** TG7 by Eun Tae Won

* Comment resolution effort is ongoing, 9 comments remain

Motion: *That the 802.15 WG authorize Task Group 7 to Modify its PAR, in response to received comments, in the following way:*

**Old Title:** Physical (PHY) and Medium Access Control (MAC) Layer Standard for Short-Range Wireless Optical Communication Using Visible Light

**Change Title to read:** Short-Range Wireless Optical Communication Using Visible Light

**Change Revised Scope to read:** This standard defines a PHY and MAC layer for short-range optical wireless communications using visible light in optically transparent media. The visible light spectrum extends from 380 to 780 nm in wavelength. The standard is capable of delivering data rates sufficient to support audio and video multimedia services and also considers mobility of the visible link, compatibility with visible-light infrastructures, impairments due to noise and interference from sources like ambient light and a MAC layer that accommodates visible links. The standard adheres to applicable eye safety regulations

**Change 8.1 to read:** 5.2 (Scope): Change to match Scope in draft, and remove word "any" in last sentence.  5.4 (Purpose): change to match Purpose in draft.  2.1 (Title): delete redundant "Standard" and simplify title.

Moved by Eun Tae Won, seconded by Clint Chaplin

Upon no discussion the vote was taken with the results of 44/0/0, the motion carries.

**10:53** PSC SG by P Murray

* Some comments were asking for information that has not been released to IEEE and therefore cannot be released
* SG requests that EC consideration of the PAR and 5C be removed from EC at this point but continue as SG
* Motion *to extend the SG for another period*
* Moved by Peter Murray and Art Astrin
* Upon no discussion the vote was taken with the results of 45/0/0

**10:56** SG4TV by Sangsung Choi

**10:56** IG SRU by Shoichi Kitazawa

* Two Presentations heard on better use of spectrum resources
* Next meetings will be in July

**10:57** WG chair recessed the meeting until Thursday evening.

**Thursday, 17 Mar 2011**

**18:31** WG chair called the meeting to order

**18:34** 802.18 liaison by J Notor

* Approved 4 documents
* 2 documents were deferred

**18:35** 802.19 liaison byTuncer Baykas

* joint meeting with TG4e

**18:36** Closing report for TG4e by P Kinney (15-11-0297-01)

Motion: Move that *802.15 WG approve the formation of an 802.15.4e Ballot Resolution Committee (BRC) with the following membership: Seong-Soon Joo, Pat Kinney, Ludwig Winkel, Wei Hong, Jeff King, Wun-Cheol Jeong, Chang Sub Shin, Ben Rolfe, Yang Yang, Myung Lee, Jonathan Simon, and Kazuyuki Yasukawa. The 802.15.4e BRC is authorized to approve comment resolutions and to approve the start of recirculation ballots of the 802.15.4e draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector at least 7 days in advance.*

Moved by Pat Kinney and seconded by Ben Rolfe

Following neither discussion nor objection the motion carries by unanimous consent.

**18:43** Closing report for TG4f by T Harrington (15-11-0275-00-004f)

Move *that the WG approve the start of a recirculation ballot to forward the P802.15.4f-D03 draft standard document with the changes indicated in 15-11-0197-01 to Letter Ballot #3*.

Moved: Tim Harrington

Seconded: Dalibor Pokrajac

Question: has the draft been changed to reflect the resolution? No, Comment made “then we cannot approve this motion since the change is not documented.”

Does 15-11-197-01 describe the desired change to allow the editor to modify the document? Has technical resolution been approved? Yes. Is it in the comment resolution document? Yes

T Harrington presented 15-11-0197-01 and read the relevant section of the document. It was noted that the PICS are informative.

Following neither further discussion nor objection the motion carries by unanimous consent.

**19:00** Closing report for TG4g by P Beecher (15-11-0309-00-004g)

Motion: *Move that 802.15 WG start a WG Recirculation Letter Ballot requesting approval to forward document d3P802-15-4g\_Draft\_Standard.pdf, edited in accordance with comment spreadsheet P802.15-11-0178-10-004g and document P802.15-11-0303-00-004g, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

Moved: Ed Callaway

Seconded: James Gilb

Following neither discussion nor objection the motion carries by unanimous consent.

**19:05** TGi by J Gilb (15-11-0268-00)

Motion: *Approve the forwarding D05 with the changes indicated in 15-11-0182-02 to Sponsor recirculation ballot.*

Moved by James Gilb and seconded by Phil Beecher

Following neither discussion nor objection the motion carries by unanimous consent.

Motion: *802.15 WG requests conditional approval from the EC to submit 802.15.4 revision draft to RevCom.*

Moved by James Gilb and seconded by Rick Alfvin

Vote was taken with the results of 37/0/0, motion carries.

BRC conference call

* 19 April, 2011, 9:00-11:00 PDT
* 17:00-19:00 GMT, 12:00-14:00 EDT

Agenda:

* Resolve comments from second recirculation.

**19:13** TG4j (MBAN) closing report by Ray Krasinski (15-10-0280-00)

**19:15** TG4k **(**LECIM) closing report by David Howard (15-10-304-01)

Noting that the task group had approved Pat Kinney as chair, the WG chair appointed Pat Kinney as TG4k chair and asked the WG to affirm this appointment. Motion *that the WG affirms the appointment of Pat Kinney as chair of TG4k.*

Moved by Ben Rolfe and seconded by Ed Callaway

Following neither discussion nor objection the motion carries by unanimous consent.

**19:20** Closing report for TG7 by Eun Tae Won (15-11-0305-00)

Motion: *Request the 802 executive committee for conditional approval to forward IEEE P802.15.7 to the IEEE Standards Association Standards Board for publication.*

Moved by Eun Tae Won and seconded by Ben Rolfe

Upon no discussion the vote was taken with the results of 34/0/0

**19:28** Closing report for TG6 by A Astrin (15-11-0307-00-0006)

Motion: *Move that WG approve: Daniel Lewis, Anuj Batra, Jin-Ming Ho, Marco Hernandez, Huan-Bang Li, S. Park, Art Astrin as 802.15.6 Ballot Resolution Committee, to certify that the changes have been correctly applied and that the resulting d03 is ready to start the recirculation at the discretion of TG chair.*

Moved by Art Astrin, seconded by Ben Rolfe

Following neither discussion nor objection the motion carries by unanimous consent.

**19:35** PSC by Peter Murray (15-11-0281-00)

**19:43** TerraHz by ThomasKürner(15-11-253-00)

**19:46** SRU by Shoichi Kitazawa (15-11-298-00)

**19:51** WNG by Pat Kinney (15-11-0307-00)

*Motion: The 802.15 WG approve and adopt the IEEE PROJECT 802 LAN / MAN STANDARDS COMMITTEE (LMSC) WORKING GROUP (WG) POLICIES AND PROCEDURES (P&P) to replace 99001r7P802-15\_Working-Group-Policies-and-Proceedures*

Moved by Pat Kinney and seconded by Ben Rolfe

Following neither discussion nor objection the motion carries by unanimous consent.

Motion: *The 802.15 WG approve and adopt the 802.15 Operations Manual document 15-10-0235-08 as the operations manual for 802.15 WG.*

Moved by Pat Kinney and seconded by Peter Murray

Following neither discussion nor objection the motion carries by unanimous consent.

**19:54** SG4TV by Sangsung Choi (15-11-0311-01)

Motion: *to the WG to extend the SG4-TV for four months*

Moved by Sangsung Choi and seconded by Peter Murray

Upon no discussion the vote was taken with the results of 24/0/0

**19:56** 802.11 liaison by Clint Chaplin (15-11-310-00)

**20:00** BT Liaison report by J Barr

**20:04** P2030 report by B Heile

* Now in sponsor ballot

**20:06** ZigBee liaison report by B Heile

* Applications related to smart grid and smart home are moving ahead

**20:08** ISA100.11a liaison report by P Kinney

* ISA100.11a is undergoing a corrigenda revision letter ballot

**20:12** Motion to adjourn was made by Ben Rolfe and seconded by Callaway. Upon hearing no objection, the motion carries; the session is adjourned.

**Annex A**

|  |  |  |  |
| --- | --- | --- | --- |
| 182 Attendees |  | | |
| **Name** | | | **Declared Affiliation** |
| Aiello, Roberto | | | Independent |
| Ajito, Katsuhiro | | | NTT |
| Alfvin, Richard | | | Verilan, Inc. |
| Asano, Takamasa | | | Fuji Electric |
| Astrin, Arthur | | | Astrin Radio |
| Atcitty, Torrey | | | HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED |
| Bae, Taehan | | | Samsung Electronics |
| Bahr, Michael | | | Siemens AG |
| Barr, John | | | JRBarr, Ltd. |
| Batra, Anuj | | | Texas Instruments Incorporated |
| Baykas, Tuncer | | | National Institute of Information and Communications Technology (NICT) |
| Beecher, Philip | | | Beecher Communications Consultants Ltd |
| Bogenfeld, Eckard | | | Deutsche Telekom AG |
| Boshan, Zhang | | | ZTE Corporation |
| Boytim, Mathew | | | Sensus |
| Bradley, Peter David | | | Zarlink Semiconductor, Inc. |
| Britz, David | | | att labs |
| Bynam, Kiran | | | Samsung Electronics |
| Byun, Woo-Jin | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Cain, Brent | | | Itron Inc. |
| Callaway, Edgar | | | Sunrise Micro Devices, Inc. |
| Calvert, Chris | | | Landis+Gyr Worldwide |
| Canchi, Radhakrishna | | | Kyocera Corporation |
| Cardozo, Ruben Salazar | | | Landis & Gyr |
| Chandler, Russell | | | Ubisense |
| Chang, Kuor-Hsin , | | | Elster Electricity, LLC |
| Chaplin, Clint | | | Samsung Information Systems America Inc. |
| Chebbo, Hind | | | FUJITSU |
| Chia, Michael | | | Institute for Infocomm Research |
| Chitrakar, Rojan | | | Panasonic Singapore Laboraties Pte Ltd |
| Choi, Sangsung | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Chung, Hyun Kyu | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Dahl, Matthew | | | Silver Spring Networks Inc. |
| De Ruijter, Hendricus | | | Silicon Laboratories |
| Demessie, Yohannes | | | National Institute of Information and Communications Technology (NICT) |
| Dotlic, Igor | | | National Institute of Information and Communications Technology (NICT) |
| Eggert, Dietmar | | | Atmel Corporation |
| Evans, David | | | Philips Electronics |
| Filin, Stanislav | | | National Institute of Information and Communications Technology (NICT) |
| Fukatsu, Noriyasu | | | Mitsubishi Electric Automation Inc. |
| Gauthier, Vincent | | | Telecom SudParis |
| Gilb, James | | | Tensorcom, Inc. |
| Gong, Daning | | | China Academy of Telecommunication Research (CATR) |
| Green, Evan | | | Harmony Engineering |
| Hara, Shinsuke | | | National Institute of Information and Communications Technology (NICT) |
| Harada, Hiroshi | | | National Institute of Information and Communications Technology (NICT) |
| Harada, Shigekazu | | | NEC Corporation |
| Harrington, Timothy | | | WhereNet - Zebra ESG |
| Heile, Robert F | | | ZigBee Alliance |
| Hernandez, Marco | | | National Institute of Information and Communications Technology (NICT) |
| Hirakawa, Mitsuru | | | Innovation Core SEI |
| Ho, Jin-Meng | | | Texas Instruments Incorporated |
| Hong, Wei | | | Cisco Systems, Inc. |
| Hosur, Srinath | | | Texas Instruments Incorporated |
| Howard, David | | | On-Ramp Wireless, Inc. |
| Huang, Heqing | | | Wuxi SensingNet Industrialisation Research Institute |
| Hughes, Sterling | | | Silver Spring Networks Inc. |
| Hwang, Jung-Hwan | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Ida, Ichirou | | | FUJITSU |
| Ikegami, Tetsushi | | | Meiji University |
| Iso, Akio | | | National Institute of Information and Communications Technology (NICT) |
| Iwaoka, Mitsuru | | | Yokogawa Electric Corporation |
| Jang, Il Soon | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Jeong, Byung Jang | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Jeong, Wuncheol | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Jillings, Steven | | | Semtech |
| Jo, Junho | | | LG ELECTRONICS |
| Joo, Seong-Soon | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Joshi, Avinash | | | Motorola Solutions Inc |
| Kang, Hyunduk | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Kang, Sungweon | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Kent, Jeritt | | | Analog Devices Inc. |
| Khakuria, Prithpal | | | Silver Spring Networks Inc. |
| Kim, Bonghoe | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Kim, Eun Sun | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Kim, Jinkyeong | | | LG ELECTRONICS |
| Kim, Suhwook | | | LG ELECTRONICS |
| Kim, Yongsun | | | LG ELECTRONICS |
| Kim, Youngsoo | | | samsung electronics |
| King, Jeffrey | | | Elster Electricity, LLC |
| Kinney, Patrick | | | Kinney Consulting LLC |
| Kitazawa, Shoichi | | | ATR Wave Engineering Laboratories |
| Kojima, Fumihide | | | NICT |
| Krasinski, Raymond | | | Philips Electronics |
| Kuerner, Thomas | | | Technische Universitaet Braunschweig |
| Kwok, Yuen | | | Institute for Infocomm Research |
| Lagrange, Pascal | | | Canon Research Centre France |
| Lan, Zhou | | | National Institute of Information and Communications Technology (NICT) |
| Le, Khanh Tuan | | | Texas Instruments Incorporated |
| Lee, Hoosung | | | CUNY - City University of NY |
| Lee, Myung | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Lewis, Daniel | | | NICTA |
| Li, Feng | | | ChongQing University of Posts and Telecomunications |
| Li, Huan-Bang | | | individual |
| Li, Yong | | | National Institute of Information and Communications Technology (NICT) |
| Lim, Sang-Kyu | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Lim, Sew Hyong | | | Panasonic |
| Link, Jeremy | | | 54 Oaks Inc. |
| Liru, Lu | | | National Institute of Information and Communications Technology (NICT) |
| Lynch, Michael | | | Nortel Networks |
| Mason, Robert | | | Elster Solutions |
| Millet, Charles | | | Analog Devices Inc. |
| Mirnezami, Siamak | | | SFM systems |
| Monnerie, Emmanuel | | | Landis+Gyr Worldwide |
| Mori, Kenichi | | | Panasonic |
| Moy, Hamilton | | | Silver Spring Networks Inc. |
| Murray, Peter | | | Self Employed |
| Naganuma, Ken | | | Toko America Inc. |
| Nagao, Akifumi | | | Panasonic |
| Nagvanshi, Preeti | | | Samsung |
| Ngo, Chiu | | | Samsung |
| Nguyen, Estelle | | | ACCENT Inc. |
| Notor, John | | | Notor Research |
| Ogawa, Hiroyo | | | (ARIB) Association of Radio Industries and Businesses |
| Oh, Mi-Kyung | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Olson, David | | | Landis & Gyr |
| Omeni, Okundu | | | Toumaz Technology Ltd. |
| Ouvry, Laurent | | | CEA-Leti |
| Oyama, Satoshi | | | Hitachi Technologies |
| Panchangamprasad | | | Applied Micro (AMCC) |
| Park, Seung-Hoon | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Park, Taejoon | | | Samsung Electronics |
| Patro, Ranjeet | | | Samsung Electronics |
| Peng, Xiaoming | | | Institute for Infocomm Research |
| Ping, Xu Ping | | | Southeast University, China |
| Pokrajac, Dalibor | | | Guard RFID Solutions |
| Popa, Daniel | | | Itron Inc. |
| Powell, Clinton | | | Southern California Edison Company |
| Powell, Richard | | | Zarlink Semiconductor, Inc. |
| Priebe, Sebastian | | | TU Braunschweig |
| Ramasastry, Jayaram | | | Silver Spring Networks Inc. |
| Reznik, Alex | | | InterDigital, Inc. |
| Roberts, Richard | | | Intel Corporation |
| Rodine, Craig | | | Electric Power Research Institute, Inc. (EPRI) |
| Roh, Dongwook | | | LG ELECTRONICS |
| Rolfe, Benjamin | | | Blind Creek Associates |
| Sagan, Didier | | | Zarlink Semiconductor, Inc. |
| Sakamoto, Kentaro | | | Tokyo Gas |
| Sasaki, Shigenobu | | | Niigata University |
| Sato, Naotaka | | | Sony Corporation |
| Sawai, Ryo | | | Sony Corporation |
| Schmidl, Timothy | | | Texas Instruments Incorporated |
| Schmidt, Michael | | | Atmel Corporation |
| Schwoerer, Jean | | | France Telecom |
| Seibert, Cristina | | | Silver Spring Networks Inc. |
| Shah, Kunal | | | Silver Spring Networks Inc. |
| Shellhammer, Stephen | | | Qualcomm, Inc. |
| Shibagaki, Nobuhiko | | | Hitachi Ltd. |
| Shimada, Shusaku | | | Yokogawa Co. |
| Shin, Chang Sub | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Shin, Cheolho | | | Electronics and Telecommunications Research Instititute (ETRI) |
| Shin, Hyungsoo | | | LS Cable |
| Sim, Michael | | | Panasonic |
| Son, Jaeseung | | | Samsung |
| Song, Chunyi | | | National Institute of Information and Communications Technology (NICT) |
| Song, Ho-Jin | | | NTT |
| Sum, Chin-Sean | | | National Institute of Information and Communications Technology (NICT) |
| Sun, Chen | | | National Institute of Information and Communications Technology (NICT) |
| Taylor, Larry | | | SSN & DTC(UK) |
| Van Greunen, Jana | | | Silver Spring Networks Inc. |
| Van Wyk, Hartman | | | UNLISTED |
| Villardi, Gabriel | | | National Institute of Information and Communications Technology (NICT) |
| Virk, Bhupender | | | Procubed Inc. |
| Walewski, Joachim | | | Siemens Corporation |
| Wang, Haiguang | | | Institute for Infocomm Research |
| Wang, Junyi | | | National Institute of Information and Communications Technology (NICT) |
| Wang, Xiang | | | Shanghai institute of microsystem and infomation technology |
| Ward, Andy | | | Ubisense |
| Weikel, Scott | | | Elster Electricity, LLC |
| Wen, Lei | | | China Academy of Telecommunication Research (CATR) |
| West, Nicholas | | | Landis+Gyr Worldwide |
| Wilbur, Mark | | | Collaborative wireless strategies |
| Winkel, Ludwig | | | Siemens Corporation |
| Won, Eun Tae | | | Samsung Electronics |
| Xing, Tao | | | Wuxi SensingNet Industrialisation Research Institute |
| Yang, Yang | | | Shanghai institute of microsystem and infomation technology |
| Yasukawa, Kazuyuki | | | Fuji Electric |
| Yazdandoost, Kamya | | | National Institute of Information and Communications Technology (NICT) |
| Yokoo, Kaoru | | | FUJITSU |
| Yu, Zhan | | | Panasonic Corporation of North America |
| Zhao, Mu | | | Huawei Technologies Co., Ltd. |
| Zhen, Bin | | | Huawei Technologies Co. Ltd |