**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<IEEE802.15 WG minutes>** | |
| Date Submitted | [13 Nov 2015] | |
| Source | [Pat Kinney] [<Kinney Consulting LLC>] [Chicago, IL] | Voice: [+1.847.960.3715] Fax: [+1.847.790.3805] E-mail: [pat.kinney@ieee.org] |
| Re: | [802.15 Plenary Meeting in Dallas, Texas] | |
| Abstract | [IEEE 802.15 Working Group Minutes] | |
| Purpose | [Official minutes of the Working Group Session] | |
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**IEEE 802.15 Plenary Meeting – Session #99**

**Hyatt Regency Reunion, Dallas Texas**

**November 9-12, 2015**

**Monday, 9 Nov 2015**

**10:21 AM** The chair, Bob Heile, called the meeting to order (15-15-0769-05)

The chairasked for new attendees to raise their hands; there were none.

Announcements:

* Don’t forget to register for Atlanta, space is limited

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.

C Powell moved to *approve the agenda (document IEEE 15-15-0769-05-0000)* with R Moskowitz seconding the motion. Following no objection the agenda was approved.

C Powell moved *to approve the previous meeting minutes (document 15-15-0684-00-0000)* and B Rolfe seconded the motion. Following neither discussion nor objection the minutes were approved. There were no matters resulting from the previous minutes.

R Alfvin presented network information (15-15-0182-04).

B Rolfe presented the Treasurer Report (15-15-0853-00).

Future Sessions

* January 17-22, 2016, Hyatt Regency Atlanta, Atlanta, GA, USA, *802 Hosted Interim.*\* **(100th Session of 802.15)**
* March 13-18, 2016, Sands Venetian Hotel Macau, PRC (TBC), 802 Plenary Session.
* May 15-20, 2016, Hilton Waikoloa Village, Kona, HI, USA, 802 Wireless Interim Session.\*
* July 24-29, 2016, Grand Hyatt Manchester, San Diego, CA, USA, 802 Plenary Session
* September 18-23, 2016, TBD (Europe), *802 Wireless Interim Session.*\*
* November 6-11, 2016, Grand Hyatt San Antonio, San Antonio, TX, USA, *802 Plenary Session.*

B Heile presented a report on the EC meeting held just before this meeting (15-15-0868-00).

**Status Reports**

802.15

Task Group 3d –100Gbps THz PHY by T Kürner

* Review and Discuss Contributions
* Resolve comments on 15.3d change PAR/CSD
* Secure EC approval to forward PAR to NesCom
* Update Project Plan/Timeline

Task Group 3e –High Rate Close Proximity (HRCP) by A Estrada

* Review and Discuss Contributions
* Continue work on merged proposal
* Update Project Plan/Timeline

Task Group 3m –15.3 REVISION 1 by J Gilb

* Secure EC approval to start Sponsor Ballot

Task Group 4n –China MBAN

* Secure EC approval to forward to RevCom
* Update Project Plan/Timeline

Task Group 4q: 15.4 Ultra Low Power Amendment

* Secure EC approval to forward to RevCom
* Update Project Timeline accordingly

Task Group 4s Spectrum Resource Utilization(SRU) by Shoichi Kitazawa

* + Work on Technical Guidance Doc (TGD)
  + Prepare the CFP
  + Update Project Timeline

Study Group 15.4mc -15.4 Revision 3 by P Kinney

* + Secure EC approval to forward to RevCom
  + Update Revision timeline as needed.

Study Group 4t 15.4 High(er) Rate PHY by C Powell

* + - Resolves comments on PAR/CSD if any
    - Secure EC approval to forward to NesCom

Study Group 4u 15.4 PHY for 865-867 band in India by P Beecher

* + - Resolves comments on PAR/CSD if any
    - Secure EC approval to forward to NesCom

Task Group 7r Optical Wireless Communications by Yeong Min Jang

* + - Continue developing TGD
    - Generate/Update Project Timeline

Task Group 8 Peer Aware Communications by M Lee

* + Continue work on draft
  + Update Project Plan/Timeline

Task Group 9 –Key Management Protocol: by R Moskowitz

* + Sponsor Ballot Comment Resolution
  + Update Project Plan/Timeline

Task Group 10--Layer 2 Routing (L2R): by C Powell

* + Letter Ballot comment resolution
  + Update Project Plan/Timeline

Study Group 12 -15.4 Consolidated LLC (CLLC) by P Kinney

* + Get updated on IETF94 outcomes
  + Joint Meeting with 802.1
  + Continue work on draft PAR and CSD

THz Interest Group by T Kürner

* + Hear contributions relating to THz communications.
  + Review ongoing mission/goals/new project potential

Dependability Interest Group by J Haapola

* + Discuss Contributions
  + Evaluate if Study Group is warranted

High Rate Railroad Communications IG by Junhyeong Kim

* + Discuss opportunities for standards work
  + Review ongoing mission of the group

6 TiSCH Interest Group by P Kinney

* + Hear contributions
  + Get updated on IETF94 outcomes

15.4 Use Guide Interest Group

* + Define goals
  + Determine whether to move forward with an SG

New Projects Standing Committee (WNG)

* Review/discuss contributions

Motion *that the 802.15 WG approves B Heile as a candidate for WG chair* moved by Andrew Estrada and seconded by B Rolfe vote was taken 40/0/1

Motion *that the 802.15 WG approves Pat Kinney and R Alfvin as candidates for WG vice-chair* moved by Andrew Estrada and seconded by B Rolfe vote was taken 47/1/0

**11:29 PM** The chair recessed the meeting

**Wednesday, 11 Nov 2015**

**10:31** Bob Heile, WG chair called the meeting to order.

WG Chair made announcements concerning social, and logistics.

**10:33** 802.18 Tag liaison

* working on responses to comments from WGS

**10:35** TG3d by Thomas Kürner

* Worked on response to FCC NPRM
* Motion*:  request that the text proposal contained in 15-15-0909-01-003d-3d-Text\_Proposal\_for\_Response\_to-FCC\_NPRM be approved for submission to 802.18. The 802.15 working group chair is authorized to make additional editorial modifications as needed.*
  + Moved by Thomas Kürner, seconded by Andrew Estrada
  + Upon neither discussion nor objection the motion carries

**10:39** TG 3e by Andrew Estrada

* Discussions on MAC and other areas

**10:40** TG 3m closing report by James Gilb (15-15-0912-00)

* *802.15 requests EC approval to forward P802.15.3RevA-DF2 to ISO/IEC JTC1 SC6, for information under the PSDO agreement, once Sponsor balloting begins.*
  + Moved: Gilb
  + Second: Alfvin
  + 43/0/0
* Motion: *802.15 requests conditional approval from the EC to submit 802.15.3RevA draft amendment to Sponsor Ballot pending recirculation.*
  + Moved: J Gilb, Second: R Alfvin
  + The vote was taken with the results of 41/0/2, motion carries
* Move *that 802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the WG balloting of the 802.15.3RevA draft standard with the following membership: James Gilb (Chair), Thomas Kürner, Andrew Estrada, Ko Togashi, Pat Kinney. The 802.15.3m BRC is authorized to approve comment resolutions and to approve the start of recirculation ballots of the 802.15.3RevA 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: Gilb
  + Second: Alfvin
  + Upon neither discussion nor objection the motion carries

**10:46:** TG4n by B Heile

* preparing package for submission to EC and RevCom

**10:47** TG4q by B Heile

* preparing package for submission to EC and RevCom

**10:48** TG4s by S Kitazawa

* Discussions on IEs

**10:49** SC maintenance on 15.4mc by P Kinney

* Package sent to RevCom for review on 3 Dec 2015
* Package prepared for EC for review on 13 Nov 2015

**10:55** Study Group 4u 15.4 PHY for 865-867 band in India by P Beecher

* + - Resolved comments on PAR/CSD (15-15-0919-00)
    - Secure EC approval to forward to NesCom

**10:56** Study Group 4t 15.4 High Rate PHY by C Powell

* + - Resolved comments on PAR/CSD (15-15-0919-00)
    - Secure EC approval to forward to NesCom

**10:57** TG7.1 LED by Yeong Min Jang

* Working on TRD

**10:58** TG8 (PAC) by Myung Lee

* Working on remaining MAC issues

**10:59** TG9 (KMP) closing report by Robert Moskowitz (15-15-0893-00)

* *Move that 802.15 WG reaffirm the constitution of a Ballot Resolution Committee (BRC) for the WG balloting of the 802.15.9 draft recommended practice with the following membership: Robert Moskowitz, Tero Kivinen, Don Sturek, Peter Yee, Subir Das, Brian Weis, Gary Stuebing. The 802.15.9 BRC is authorized to approve comment resolutions and to approve the start of recirculation ballots of the 802.15.9 draft on behalf of the 802.15 WG. Comment resolution between sessions will be conducted via reflector email and via teleconferences announced to the reflector.*
* Moved by R Moskowitz, seconded by D Sturek
* Upon neither discussion nor objection the motion carries

**11:00** TG10 (L2R) by Clint Powell

* Finishing comment resolutions to LB

**11:01** IG HRRC closing report by Junhyeong Kim (15-15-0916-00)

**11:03** IG Dependability closing report by J Haapola (15-15-0907-01)

**11:04** THZ IG closing report by T Kürner (15-15-0904-00)

**11:08** IG 6T by P Kinney

* discussed TSCH issues such as bit ordering and IE use

**10:10** SG LLC by P Kinney

* developing PAR and CSD for an 802.15.4 LLC

**11:13** Review of comment responses to 15.4t, 15.4u, and 15.3d by B Heile (15-15-0919-00)

That *802.15 WG approves the responses to the comments contained in DCN: 15-15-0919-00-0000) received on the 15.4t PAR and CSD, on the 15.4u PAR and CSD, and on the 15.3d change PAR.*

* Moved by P Beecher, seconded by C Powell
* The vote was taken with the results of 37/0/0, motion carries

**11:26** Move: *The 802.15 working group chair is authorized to make additional editorial modifications as needed to the comment responses.* Moved by C Powell and B Rolfe

**11:30** WG chair spoke to the EC proposed action to close 802.18 TAG and replace it with a regulation EC SC. WG chair stated that he would vote against this change until an agreed upon scope and mission was developed.

**11:33** J Gilb stated a proposed 802 LMSC regulatory mission from P Nikolich:

1) respond to regulatory body requests

1.1) develop common 802 positions where possible

1.2) accommodate differences among 802 working groups

1.3) rapid response capability to ensure deadlines are met

2) be proactive

2.1) develop and publish positions based on the 802 communities needs

**11:40** WG chair recessed the meeting until Thursday evening.

**Thursday, 12 Nov 2015**

**18:30** WG chair called the meeting to order

Agenda changed to include presentation by R Kennedy

**18:32** TG3d **(**100G) closing report by T Kürner (15-15-0905-01)

**18:34** TG3e closing report by A Estrada (15-15-929-00)

**18:40** TG3m closing report by James Gilb (15-15-0912-00)

*Move that the 802.15 WG, having reviewed the CSD statement 15-15-0332-00 associated with P802.15.3m, approve this CSD statement*.

Moved by B Rolfe, Seconded by T Kürner

Vote taken as 43/0/1, motion carries

*Motion: 802.15.3m requests that 802.15 seek conditional approval from the EC to submit 802.15.3RevA draft to Sponsor Ballot pending recirculation.*

Moved by B Rolfe, Seconded by T Kürner

Vote taken as 41/0/2, motion carries

*Move that the 802.15 WG affirms the formation a BRC with members: James Gilb (Chair), Thomas Kürner, Andrew Estrada, Ko Togashi, Pat Kinney.*

Moved by B Rolfe , Seconded by T Kürner

Upon neither discussion nor objection the motion carries

*Move that 802.15 requests EC approval to forward P802.15.3-RevA to ISO/IEC JTC1 SC6, for information under the PSDO agreement, once Sponsor Balloting begins.*

Moved by B Rolfe , Seconded by T Kürner

Vote taken as 43/0/2, motion carries

**18:47** SCm closing report by Pat Kinney (15-15-0854-02)

**WG Motion:** *that the 802.15 WG requests approval from the EC to submit P802.15-REVc-D02 to RevCom.*

Moved by P Kinney

Seconded by B Rolfe

Vote results: 42/0/1, motion carries

**WG Motion:** *Move that 802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the WG balloting of the 802.15.4 Revision draft standard with the following membership:* Pat Kinney, James Gilb, Jeritt Kent, Benjamin Rolfe, Clint Powell, Billy Verso, Kunal Shah, Phil Beecher, Fumihide Kojima, Tero Kivinen, and Tim Harrington. *The 802.15.4 Revision BRC is authorized to approve comment resolutions and to approve the start of balloting the 802.15.4 Revision 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 in advance.*

Moved by Pat Kinney, seconded by B Rolfe

Upon neither discussion nor objection the motion carries with unanimous consent

**18:52** TG4n (CMB) closing report by L Li (15-15-914-00)

*Move that the 802.15 WG, having reviewed the 5C statement 15-12-0007-05 associated with P802.15.4n, approve this 5C statement*

Moved by Kenichi Mori, seconded by B Rolfe

Vote results: 44/0/0, motion carries

*Move that the 802.15 WG seek conditional approval from the EC to submit the IEEE P802.15.4n-D5.0 draft or final version to RevCom*

Moved by Kenichi Mori

Seconded by B Rolfe

Vote results: 43/0/1, motion carries

*Move that 802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the Sponsor balloting of the 802.15.4n draft standard with the following membership: Arthur Astrin (chair), Liang Li, Shinsuke Hara, WeiXia Zou and Kenichi Mori. The 802.15.4n BRC is authorized to approve comment resolutions and to approve the start of recirculation ballots of the 802.15.4n draft on behalf of the 802.15 WG.*

Moved by Kenichi Mori, seconded by B Rolfe

Upon neither discussion nor objection the motion carries with unanimous consent

**19:00** TG4q **(**ULP) by Chiu Ngo (15-15-0940-00)

*Move that the 802.15 WG, having reviewed the 5C statement 15-12-0387-06 associated with P802.15.4q, approve this 5C statement*

Moved by Chiu Ngo

Seconded by J Notor

Vote results: 37/0/3, motion carries

*Move that the 802.15 WG seek conditional EC approval to submit the 802.15.4q draft D7.0 or final version, to RevCom.*

Moved by Chiu Ngo

Seconded by J Notor

Vote results: 37/0/5, motion carries

*Move that 802.15 WG to approve the formation of a Ballot Resolution Committee (BRC) for the sponsor balloting of the 802.15.4q draft standard with the following membership: Chiu Ngo, Chair (Samsung), Allan Zhu (Huawei), Hendricus De Ruijter (Silicon Labs), Youngsoo Kim (Samsung), Guido Dolmans (IMEC), Kiran Bynam (Samsung), Chandrashekhar Thejaswi PS (Samsung). The 802.15.4q BRC is authorized to approve sponsor ballot comment resolutions and the start of recirculation ballots of the 802.15.4q draft on behalf of the 802.15 WG. Comment resolution between sessions will be conducted via reflector email and via teleconferences announced to the reflector at least 30 days in advance.*

Moved by: Chiu Ngo Seconded by: B Rolfe

Vote results: 38/1/3, motion carries

**19:15** 802.11/.15 Regulatory SC presentation by R Kennedy (15-15-943-01)

Motion presented: *That the 802.15 WG approve doc 11-15-1433-01-0reg-regulatory-sc-mission-statement-from-802-11 as the input from the 802.11/15 regulatory SC to the EC discussion on a regulatory mission statement.*

Discussion:

* Chair expressed disagreement with this motion and wished to discourage support for it as he believed it to be premature
* Q: Is doc 11-15-1433-01 the same as this presentation (15-15-943-01)? Yes
* Q: Being able to vote on conference calls, where is this restriction come from? WG

Due to the above presented motion being neither moved nor seconded, no vote was taken.

**19:28** 802.24 liaison by T Godfrey (24-15-0040-00)

**19:30** Study Group 15.4u closing report by a caught by surprise P Beecher (15-15-0950-00)

**19:35** Study Group 15.4t closing report by a humbled C Powell (15-15-0927-00)

**19:39** TG4s closing report by a hiding S Kitazawa (15-15-0952-00)

**19:42** TG7r1 by R Roberts (15-15-0933-01)

**19:43** TG8 (PAC) closing report by M Lee (15-15-0949-01)

**19:46** TG10 (L2R) closing report by a happy Clint Powell (15-15-0858-01)

*Move that 802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the WG balloting of the TG10 draft recommended practice with the following membership: Clint Powell, Verotiana Rabarijaona, Fumihide Kojima, Noriyuki Sato, Kiyoshi Fukui, Soo-Young Chang, Jaehwan Kim, SangSung Choi, Charlie Perkins. The TG10 BRC is authorized to approve comment resolutions and to approve the start of balloting the TG10 draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences as announced to the reflector at least 30 days in advance.*

Moved by C Powell, seconded by B Rolfe

Upon neither discussion nor objection the motion carries with unanimous consent

**19:50** IG 6T closing report by P Kinney (15-15-0856-03)

**19:55** SG LLC closing report by P Kinney (15-15-0855-02)

Motion:*that the 802.15 Working Group seeks approval from the 802 EC to extend the study group in 802.15 to develop the PAR and CSD documents for “802.15.12”.*

Moved by P Kinney, seconded by C Powell

The vote was taken with the results of 27/0/1, the motion carries

**20:06** 802.18 liaison report by J Notor (15-15-0945-00)

**20:10**  **WG Motion**: to adjourn was made by Clint Powell and seconded by Rick Alfvin. Upon hearing no objection, the motion carries; the session is adjourned.

**Annex A** Attendance = 94

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| --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** |

|  |  |  |
| --- | --- | --- |
| ABDALLAH | MOHAMED | Texas A&M University |
| ACHIR | Mounir | Canon Research Centre France |
| AKIYAMA | KEIJI | Sony Corporation |
| Aoyama | Hideki | Panasonic Corporation |
| Baykas | Tuncer | Istanbul Medipol University |
| BEECHER | PHILIP E | Wi-SUN Alliance |
| Buffington | John | Itron Inc. |
| Bynam | Kiran | SAMSUNG |
| Calvert | Chris | Landis Gyr Group Worldwide |
| Canchi | Radhakrishna | Kyocera Communications Inc. |
| Cha | Jaesang | SNUT |
| Chaplin | Clint | Imagicon |
| Choi | Sangsung | Electronics and Telecommunications Research Institute (ETRI) |
| Chung | Hee-Sang | Electronics and Telecommunications Research Institute (ETRI) |
| De Ruijter | Hendricus | Silicon Laboratories |
| Dolmans | Guido | Holst Centre / IMEC-NL |
| Dotlic | Igor | National Institute of Information and Communications Technology (NICT) |
| Eckert | Edward | Itron Inc. |
| Estrada | Andrew | Sony Corporation |
| Evans | David | Philips Electronics |
| Fukui | Kiyoshi | Oki Electric Industry Co., Ltd. |
| GOTO | YOSHIHO | Panasonic Corporation |
| Haapola | Jussi | Centre for Wireless Communications / University of Oulu |
| Hara | Shinsuke | Osaka City University (OCU) |
| Heile | Robert | Wi-SUN Alliance |
| Hernandez | Marco | National Institute of Information and Communications Technology (NICT) |
| Hiraga | Ken | NTT |
| Holcomb | Jay | Itron Inc. |
| HOSAKO | IWAO | National Institute of Information and Communications Technology (NICT) |
| Hui | Bing | Electronics and Telecommunications Research Institute (ETRI) |
| Jang | Yeong Min | Kookmin University |
| JOO | SEONG-SOON | Electronics and Telecommunications Research Institute (ETRI) |
| Jungnickel | Volker | Fraunhofer Heinrich Hertz Institute |
| Kim | Youngsoo | SAMSUNG |
| Kim | Jaehwan | Electronics and Telecommunications Research Institute (ETRI) |
| Kim | Young-Hoon | Electronics and Telecommunications Research Institute (ETRI) |
| Kim | Junhyeong | Electronics and Telecommunications Research Institute (ETRI) |
| KINNEY | PATRICK | Kinney Consulting LLC |
| Kitazawa | Shoichi | ATR Wave Engineering Laboratories |
| Kivinen | Tero | INSIDE Secure |
| Kojima | Fumihide | National Institute of Information and Communications Technology (NICT) |
| Krieger | Ann | US Department of Defense |
| Kuerner | Thomas | TU Braunschweig |
| Kumar | Amarjeet | Procubed Inc. |
| Le | Namtuan | Kookmin University |
| Lee | Myung | CUNY - City University of NY |
| Lee | Jae Seung | Electronics and Telecommunications Research Institute (ETRI) |
| Lee | Moon-Sik | Electronics and Telecommunications Research Institute (ETRI) |
| Li | Huan-Bang | National Institute of Information and Communications Technology (NICT) |
| Lynch | Michael | Nortel Networks |
| maekawa | itaru | Japan Radio Co., Ltd. |
| Matsumura | Hiroyuki | Sony Corporation |
| Mori | Kenichi | Space-Time Engineering |
| Moskowitz | Robert | HTT Consultant |
| Nekoui | Mohammad | Olympus Communication Technology of America, Inc. |
| Ngo | Chiu | SAMSUNG |
| Nguyen | Trang | Kookmin University |
| Noda | Makoto | Sony Corporation |
| Noda | Makoto | Sony Corporation |
| Notor | John | Notor Research |
| Orlik | Philip | Mitsubishi Electric Corporation |
| Oshima | Mitsuaki | Panasonic Corporation |
| P S Bhat | Chandrashekhar | SAMSUNG |
| Park | Jaewoo | Electronics and Telecommunications Research Institute (ETRI) |
| Perkins | Charles | Futurewei Technologies |
| Petrick | Albert | Jones-Petrick and Associates, LLC. |
| PONSARD | Benoit | SIGFOX S.A. |
| Powell | Clinton | Powell Wireless Consulting, LLC |
| Rabarijaona | Verotiana | National Institute of Information and Communications Technology (NICT) |
| Rakanovic | Demir | u-blox |
| Robert | Joerg | University of Erlangen-Nuremberg |
| Roberts | Richard | Intel Corporation |
| Rolfe | Benjamin | Blind Creek Associates |
| Sarikaya | Behcet | Huawei R&D USA |
| Sato | Noriyuki | Oki Electric Industry Co., Ltd. |
| Shah | Kunal | Silver Spring Networks Inc. |
| Shimada | Shusaku | Schubiquist Technologies |
| Shimizu | Masashi | Nippon Telegraph and Telephone Corporation (NTT) |
| Song | Nah-Oak | Korea Advanced Institute of Science and Technology (KAIST) |
| Stuebing | Gary | Cisco Systems, Inc. |
| Sturek | Don | Silver Spring Networks Inc. |
| Sun | Yanjun | Qualcomm Incorporated |
| Takai | Mineo | Space-Time Engineering |
| Togashi | Kou | TOSHIBA Corporation |
| toshimitsu | kiyoshi | TOSHIBA Corporation |
| TOSHINAGA | Hideki | NTT |
| Uysal | Murat | Ozyegin University |
| Verso | Billy | DecaWave |
| Villardi | Gabriel | National Institute of Information and Communications Technology (NICT) |
| Weis | Brian | Cisco Systems, Inc. |
| Yaita | Makoto | Microsystem Integration Laboratories NTT |
| Yee | Peter | NSA/IAD |
| Zeng | Yu | China Telecommunications Corporation |
| Zhang | Junwen | Fudan University |