**IEEE P802.15**

**Wireless Personal Area Networks**

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| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title |  |
| Date Submitted | [7 Nov 2014] |
| Source | [][][Chicago, IL] | Voice: [+1.847.960.3715]Fax: [+1.847.790.3805]E-mail: [pat.kinney@ieee.org] |
| Re: | [802.15 Interim Meeting in San Antonio, TX] |
| 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 #93**

**Grand Hyatt, San Antonio, Texas**

**Nov 3-7, 2014**

**Monday, 3 Nov 2014**

**11:01 AM** The chair, Bob Heile, called the meeting to order (15-14-0597-04)

The chairasked for new attendees to raise their hands; there was one.

Announcements:

* Atlanta hotel early-bird bookings could go fast, please make your reservations
* Usual social on Wednesday

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.

Ben Rolfe moved to *approve the agenda (document IEEE 15-43-0597-05-0000)* with Tim Harrington seconding the motion. Following no objection the agenda was approved.

Myung Lee moved *to approve the previous meeting minutes (document 15-14-0535-00-0000)* and Ben Rolfe seconded the motion. Following neither discussion nor objection the minutes were approved. There were no matters resulting from the previous minutes.

Rick Alfvin stated the information (IEEE 802.15-14-0035-05) 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:

* 102 voting members
* 18 nearly voters
* 44 aspirants

Chair presented the EC Meeting Report (IEEE 802.15-14-0638-00)

Future Sessions

* January 11-16, 2015, Hyatt Regency Atlanta, Atlanta, Georgia, USA *all 802 Interim Session*
* March 8-13, 2015, Estrel Hotel and Convention Center, Berlin, Germany, *802 Plenary Session.*
* May 10-15, 2015, Hyatt Regency Vancouver, Vancouver BC, CA *802 Wireless Interim Session.*\*
* July 12-17, 2015, Hilton Waikoloa Village, Big Island, HI, US, *802 Plenary Session.*
* September 13-18, 2015, Centara Bangkok (TBC), Bangkok, Thailand, *802 Wireless Interim Session.\**
* November 8-13, 2015, Hyatt Regency Dallas, Dallas, TX, USA, *802 Plenary Session.*
* January 17-22, 2016, Hyatt Regency Atlanta, Atlanta, GA, USA, *802 Wireless Interim Session.*\*

The Treasurer Report will be given at the midweek plenary

**Status Reports**

802c by Juan Carlos (privecsg-14-0017-00)

802.18 by J Notor

* 18-14-0017-00 – FCC NOI on expansion of 60 GHz band
* FCC NPRM on another appropriation of TVWS to mobile broad band services

802.24

* White paper on smart grid almost done
* IoT looking to form a group

802.15

802.11/802.15 joint regulatory group

* Meet Tuesday, AM2

TG3d by T Kürner

* Review and Discuss Contributions
* Discuss MAC issues

IG THz by T Kürner

* Starts again, ITU-R discussion

TG4n CMB by K Mori

* Completed first recirculation
* Resolve Letter Ballot comments
* Seek approval to start Sponsor Ballot

TG4q ULP by S Emami

* + Completed first Letter Ballot
	+ Resolve received comments, 300 received

TG4r ranging by D Eggert

* + Call for Nominations for a TG Chair
	+ Work on Technical Guidance Doc
	+ Prepare the CFP

TG4s SRU by Shoichi Kitazawa

* Work on Technical Guidance Doc
* Prepare the CFP

TG8 PAC by M Lee

* Continue work on draft

TG9 KMP by R Moskowitz

* + Complete draft
	+ Seek approval to start Letter Ballot

TG10 L2R by Clint Powell

* Hear responses to the CFP

SG7a LED by Prof Jang

* Secure approval for the PAR and CSD

IG Dep by Riuji Koji

* Still in call for interest mode

SC WNG by P Kinney

* 3 presentations:
	+ 802.16.3 projects of possible interest to 802.15 by R Marks
	+ Proposal for railroad communication by J Kim
	+ Proposal to Create a New Task Group (15.3e) by A Estrada

SC MAG by P Kinney

* focus of meetings is Comment Resolution for LB97- 802.15.4 revision

IG 6tisch by P Kinney

* focus of meeting is on preparation for next week’s IETF conference

802 WG P&P changes by J Gilb (EC-14-0066-00)

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

**Wednesday, 5 Nov 2014**

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

WG Chair made announcements concerning social and logistics.

**10:33** TG3d report by Thomas Kürner

* TG3d now has a technical editor

**10:37** IG THz closing report by Thomas Kürner (15-14-0440-00)

* Motion: *Request that the WG submits the draft response (doc. 15/0539r4) on the ITU-R liaison to 802.18*
* Moved by Thomas Kürner, Seconded by Clint Powell
* Upon neither discussion nor objection the motion carries

**10:39** TG4n by Liang Li

* Resolved all comments and have updated the draft
* 2 outstanding “no” votes

**10:41** TG4q by Shariar Emami

* Resolving comments

**10:43** TG4r by Dietmar Eggert

* No volunteer for Chair position yet

**10:44** TG4s closing report by Shoichi Kitazawa (15-14-0666-00)

**10:46** TG8 (PAC) by Myung Lee

* Hearing presentations and drafting document

**10:47** TG9 (KMP) by Bob Moskowitz

* Goal is to have a document ready for WG balloting by tomorrow

**10:49** TG10 (L2R) by Clint Powell

* Merging proposals
* Goal is to be ready for LB after January 2015 session

**10:51** SG 7a OCC by Rick Roberts

* Received 24 comments on PAR and CSD
* Issue that title contains “visible” which prohibits infrared
* Looking into changing to a revision

**10:56** IG Depend closing report by R Kohno (15-14-0665-00)

**11:00** IG 6T by Pat Kinney

* meeting will focus on IETF meeting next week

**11:01** SC maintenance report by Pat Kinney

* working on LB97 comment resolution

**11:02** SC WNG by Pat Kinney

* 3 presentations:
	+ 802.16.3 projects of possible interest to 802.15 by R Marks
	+ Proposal for railroad communication by J Kim
	+ Proposal to Create a New Task Group (15.3e) by A Estrada

**11:04** WG chair recessed the meeting until Thursday evening.

**Thursday, 6 Nov 2014**

**18:33** WG chair called the meeting to order

**18:35** TG9 (KMP) closing report by Bob Moskowitz (15-14-0668-00)

*Move that the 802.15 WG start a WG Letter Ballot, requesting approval to forward document P802-15-9-D01\_Draft\_Standard.pdf to Letter Ballot, pending the completion and inclusion of the edits from 15-14-0673-00-0009.*

Moved by: Robert Moskowitz

Seconded by: Ben Rolfe

Upon neither discussion nor objection the motion carries

*Move that 802.15 WG approve the formation 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. The 802.15.9 BRC is authorized to approve comment resolutions 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: Robert Moskowitz Seconded by: Ben Rolfe

Upon neither discussion nor objection the motion carries

**18:40** TG3d **(**100G) closing report by T Kürner (15-14-0649-01)

**18:45** TG4n (CMB) closing report by Liang Li (15-14-684-01)

Move that *802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the WG balloting of the 802.15.4n draft standard with the following membership: Arthur Astrin, Kenichi Mori, Masahiro Kuroda, Dietmar Eggert, WeiXia Zou and Liang Li. 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. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector at least 30 days in advance.*

Moved by: Liang Li Seconded by: Ken Mori

Upon neither discussion nor objection the motion carries

Move that *802.15 WG approve start of a recirculation of*

*d3P802-15-4n\_Draft\_Standard.pdf to Sponsor Ballot.*

*Moved by  Liang Li ; Seconded by  : Ken Mori*

Upon neither discussion nor objection the motion carries

WG Motion:  *Move that 802.15 WG request conditional EC approval to send Draft D3 to Sponsor Ballot*

Upon no discussion vote was taken with the results of 32/0/0, the motion carries

Moved by  Liang Li ; Seconded by  : Ken Mori

**18:51** TG4q **(**ULP) by Shariar Emami (15-14-0692-00)

**WG Motion:** *Move that 802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the WG balloting of the 802.15.4q draft standard with the following membership: Shahriar Emami, Allan Zhu, Frederik Beer, Hendricus De Ruijter, CHANDRASHEKHAR THEJASWI PS, Kiran Bynam and Youngsoo Kim. The 802.15.4q BRC is authorized to approve comment resolutions 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:  Shariar Emami Seconded by: Ben Rolfe

Upon neither discussion nor objection the motion carries with unanimous consent

**18:56** TG8 (PAC) closing report by Myung Lee (15-14-0683-00)

**18:58** TG4r closing report by Dietmar Eggert (15-14-0686-00)

**19:01** TG10 (L2R) closing report by Clint Powell (15-14-0670-00)

**19:05** SG7aOCC by Yeong Min Jang (15-14-0685-00)

WG Motion:  *Move that the WG approve the resolution to the comments received on the 15.7a PAR and CSD (DCN 15-14-0658-03-007a) and request that the EC approve forwarding the revised PAR  (DCN 15-14-0674-00) to NesCom for consideration. The WG authorizes Bob Heile to make any needed changes required to secure approval*.

moved:  Rick Roberts

second: John Notor

Upon no discussion the vote was taken with the results of 29/0/0, motion carries

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 “SG 7a OCC”*

Moved by Clint Powell, Rick Roberts

Upon no discussion the vote was taken with the results of 27/0/0, motion carries

**19:15** IG 6T (6tisch) by Pat Kinney (15-14-0693-00)

**19:20** Motion: *that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and 5c documents for “CPHR”*

Upon no discussion the vote was taken with the results 30/0/0, motion carries

**19:25** SCm closing report by Pat Kinney (15-14-0632-01)

**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, Dalton Victor, 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 Ben Rolfe

Upon neither discussion nor objection the motion carries with unanimous consent

**19:30** B Rolfe presented the Treasurer Report (15-14-0691-00)

**19:35** 802.11 liaison report by (15-14-0694-00)

**19:36** 802.18 by John Notor (15-14-0688-01)

**19:37** 802.19 by Ivan Reede

* meetings for coexistence in unlicensed bands, completed and will be submitted to EC
* agreed to form a SG on Coexistence

**19:38** 802.24 liaison by J Gilb

* nothing to report

**19:40**  **WG Motion**: to adjourn was made by Ben Rolfe and seconded by Clint Powell. Upon hearing no objection, the motion carries; the session is adjourned.

**Annex A** Attendance = 80

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

|  |  |  |
| --- | --- | --- |
| ACHIR | Mounir | Canon Research Centre France |
| AKIYAMA | KEIJI | Sony Corporation |
| Alfvin | Richard | Verilan |
| Aoyama | Hideki | Panasonic Corporation |
| Bynam | Kiran | SAMSUNG |
| Calvert | Chris | Landis Gyr Group Worldwide |
| Canchi | Radhakrishna | Kyocera Communications Inc. |
| Chang | Kapseok | Electronics and Telecommunications Research Institute (ETRI) |
| Chang | Soo-Young | California State University, Sacramento (CSUS) |
| Chaplin | Clint | Samsung Research America |
| Chasko | Stephen | Landis Gyr Group Worldwide |
| Chun | Ik-Jae | Electronics and Telecommunications Research Institute (ETRI) |
| Das | Subir |  |
| De Ruijter | Hendricus | Silicon Laboratories |
| Dotlic | Igor | National Institute of Information and Communications Technology (NICT) |
| Drude | Stefan | NXP Semiconductors |
| EGGERT | DIETMAR | Atmel Corporation |
| Emami | Shahriar | Samsung Information Systems America, Inc. |
| Estrada | Andrew | INDEPENDENT |
| Evans | David | Philips Electronics |
| Fukui | Kiyoshi | Oki Electric Industry Co., Ltd. |
| Gilb | James | Tensorcom, Inc. |
| Gillmore | Matthew | Itron Inc. |
| Godfrey | Tim | Electric Power Research Institute, Inc. (EPRI) |
| Greer | Kerry | Hetronic International |
| Haapola | Jussi | Centre for Wireless Communications / University of Oulu |
| Harrington | Timothy | WhereNet - Zebra ESG |
| Hartman | James | Landis Gyr Group Worldwide |
| Heile | Robert | ZigBee Alliance |
| Hernandez | Marco | National Institute of Information and Communications Technology (NICT) |
| Hiraga | Ken | NTT |
| Holcomb | Jay | Itron Inc. |
| Horisaki | Koji | TOSHIBA Corporation |
| Jang | Yeong Min | Kookmin University |
| Kang | Hyunduk | Electronics and Telecommunications Research Institute (ETRI) |
| Kato | Shuzo | Tohoku University |
| Kato | Toyoyuki | Anritsu Engineering Co.,Ltd, |
| KINNEY | PATRICK | Kinney Consulting LLC |
| Kitazawa | Shoichi | ATR Wave Engineering Laboratories |
| Kivinen | Tero | INSIDE Secure |
| Kohno | Ryuji | YNU/CWC-Nippon |
| Kuerner | Thomas | TU Braunschweig |
| lee | hoosung | Electronics and Telecommunications Research Institute (ETRI) |
| Lee | Jae Seung | Electronics and Telecommunications Research Institute (ETRI) |
| Lee | Myung | CUNY - City University of NY |
| Leicht | Suzanne |  |
| Li | Huan-Bang | National Institute of Information and Communications Technology (NICT) |
| Li | Liang | Vinno Technologies Inc. |
| Lynch | Michael | Nortel Networks |
| maekawa | itaru | Japan Radio Co., Ltd. |
| Matsumura | Hiroyuki | Sony Corporation |
| McIntosh | James |  |
| Mori | Kenichi | Pansonic Corporation |
| Moskowitz | Robert | Verizon |
| Nekoui | Mohammad | Olympus Communication Technology of America, Inc. |
| Ngo | Chiu | SAMSUNG |
| Notor | John | Notor Research |
| Petrick | Albert | Jones-Petrick and Associates, LLC. |
| Powell | Clinton | PWC, LLC |
| P S Bhat | Chandrashekhar | SAMSUNG |
| Randall | Karen | NSA/IAD |
| Reede | Ivan | AmeriSys Inc. |
| Roberts | Richard | Intel Corporation |
| Rolfe | Benjamin | Blind Creek Associates |
| Sarikaya | Behcet | Huawei R&D USA |
| Sato | Noriyuki | Oki Electric Industry Co., Ltd. |
| Seaman | Michael |  |
| Shimada | Shusaku | Schubiquist Technologies Guild |
| Shimizu | Masashi | Nippon Telegraph and Telephone Corporation (NTT) |
| Sturek | Don | Silver Spring Networks Inc. |
| Takai | Mineo | Space-Time Engineering |
| Togashi | Kou | TOSHIBA Corporation |
| toshimitsu | kiyoshi | TOSHIBA Corporation |
| tsubaki | toshimitsu | Nippon Telegraph and Telephone Corporation (NTT) |
| Verso | Billy | DecaWave |
| Villardi | Gabriel | National Institute of Information and Communications Technology (NICT) |
| Weis | Brian | Cisco Systems, Inc. |
| Yee | Peter | NSA/IAD |
| Yuan | Liquan |  |
| Zhu | Chunhui | SAMSUNG |