**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 | [19 July 2013] | |
| Source | [Clint Powell] [PWC, LLC] [Phoenix, AZ] | Voice: [+1.480.586.8457] Fax: [ ] E-mail: [cpowell@ieee.org] |
| Re: | [802.15 Plenary Meeting in Geneva, Switzerland] | |
| 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 #85**

**ITU/UTI Geneva, Switzerland**

**July 15-19, 2013**

**Monday, 15 July 2013**

**14:04** The acting chair (hereafter known as “The Chair”, for the purposes of these minutes for this meeting), Pat Kinney, called the meeting to order (15-13-0346-01)

Announcements:

* Registration for Nanjing is eminent
  + Hotel ~ $100/night
* No Social at Geneva Mtg.

Ben Rolfe moved to *approve the agenda (document IEEE 15-13-0346-01)* with Jon Adams seconding the motion. Following no objection the agenda was approved.

Jon Adams moved *to approve the previous meeting minutes (document 15-13-0295-00-0000)* and Ben Rolfe seconded the motion. Following neither discussion nor objection the minutes were approved. There were no matters resulting from the previous minutes.

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

The Chair informed the group of, and displayed the IEEE-SA patent policy presentation slides 1-4 (<http://standards.ieee.org/board/pat/pat-slideset.ppt>).

The 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.

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

Rick Alfvin stated the information (IEEE 802.15-13-027-03) on registration requirements and the network information. Basic topics covered were:

* Registration requirements
* Network information
  + - Network provided by local ITU/UTI
    - Network issues are being observed with connect to IEEE (New Jersey)
* Attendance sheets
  + - 14 sessions, 11 required to meet 75%
* Voting Tokens
* Voting Rights
* Meeting Video Audio recording – not allowed

802.15 Work Group Membership status:

* 126 voting members
* 30 nearly voters
* 46 aspirants

Future Sessions

* 15-20 Sept, 2013, Zhong Shan Hotel, Nanjing, China
  + Reminder that a Visa may be required, information on registration page
  + Might want to consider more than a single trip Visa due to Beijing Mtg. in 2014
* 10 – 15 Nov, 2013, Hyatt Regency Reunion, Dallas, TX, US
* 19 – 24 Jan, 2014, Hyatt Century Plaza, Los Angeles, CA, US
* 16 – 21 March, 2014, China World Hotel (TBC), Beijing, CN
* 11 – 16 May, 2014, Hilton Waikoloa Century Plaza, Big Island, HI, US
* 13 – 18 July, 2014, Grand Hyatt Manchester, San Diego, CA
* 14 – 19 Sept, 2014, Hilton Athens under review, Athens, GR (not GA in the US)
* 2 – 7 Nov, 2014, Grand Hyatt, San Antonio, TX, US

There are 3 tutorials this week (Mon. eve.) in the Popov conf. Rm.

Chair presented the EC Meeting Report (IEEE 802.15-13-0413-00)

* IEEE Elections - Bruce Kramer running for SA President 2015-2016.
* OmniRAN looks like it will not be a standard.
* No rules changes per James Gilb.
* ISO/IEC JTC1 SC6 (11-13-1701) mtg. summary.
* China World Hotel logistics being worked on by EC.

Ben Rolfe presented the Treasurer Report (IEEE 802.15-13-0408-00)

**May 1, 2013 (unaudited) – $569,314.79**

IEEE account: $385,728.64 +76.93+88.47 +82.47 = $385,976.51

Face-to-Face: $64,848.90 – 14,223.07+57150-25,537.56+101,100 = $183,338.28

**June 30, 2013 (unaudited) – $ 386,061.74**

IEEE account: $385,976.51 + 85.23 = $386,061.74

Face-to-Face: $183,338.28 + $71,400.00 - $61,737.97 = $193,000.31 (as of May 29)

**Status Reports**

802.18 by John Notor

* Not available – due to conflict.

802.15 task group status

TG4j report by Pat Kinney:

* No sessions this week
* Standard was approved in June, 2013

TG4k report by Pat Kinney:

* No sessions this week (Tues. AM1 session has been cancelled)

TG4m by Sangsung Choi

* 3 sessions this week
* Tues. AM2 being moved to Tues. AM1
* Awaiting for EC approval to go to sponsor ballot

TG4n CMB by Art Astrin

* 4 sessions this week
* 2 proposals on PHY, 1 proposal on ranging
* Targeting going to WG LB after Sept. (Nanjing)

TG4p PTC by Jon Adams

* 6 sessions this week
* Preparing draft to got to sponsor ballot
* Request for TG approval to go to sponsor ballot slated for mid-week plenary

TG4q ULP by Shariar Emami

* 4 sessions this week
* Presentations will be given
* Continue editing of technical guidance doc

TG8 PAC by Myung Lee

* 8 sessions this week
* 19 proposals being heard
* Hopes of merging of proposals occurring this week

TG9 KMP by Bob Moskowitz

* 4 sessions this week
* Reviewing comments from May, will assign writing assignments

SG L2R by Clint Powell

* 6 sessions this week
* Address comments/feedback from 802 on PAR/5c
* Make request at EOW EC to move to TG

IG LED by Prof Jang

* 2 sessions this week
* 8 presentations
* Discussion on camera communications

IG THZ by Tomas Kürner

* 4 sessions this week
* Straw poll on going to SG
* Prepare draft letter to FCC

IG SRU by Shoichi Kitazawa

* 2 sessions this week

IG DEP by Ryuji Kohno

* 2 sessions this week
* Discussion on application metrics

SC WNG by P Kinney

* WNG is Wed. PM1
* 5 presentations including one from SRU and one from OmniRAN

SC Maint. by P Kinney

* 2 sessions this week
* Discussing changes on 15.4
* Will ask TG for approval of Revision PAR to 802.15.4

802 Architecture by James Gilb

* Proposed changes to 5C document, submit comments to The Chair
* ballot has been extended
* 100+ comments

TAG 802.24 by J Gilb

* 3 sessions this week
* Work on response to ITU
* Work on White Paper

AoB

* Many 802 PARs to be considered this week
  + Chair asked for any comment on any PARs being considered this week

**15:02** The Chair recesses until Wednesday at 13:30

**Wednesday 17 July 2013**

**802.15 mid-session plenary meeting**

**13:30pm** Acting Chair called the meeting to order.

Announcements:

* Registration for Nanjing is eminent
  + Hotel ~ $100/night
* No Social at Geneva Mtg.
* Get your attendance correct, IEEE is not your affiliation

Straw Polls on coming back to Geneva for and 802 Mtg.

* Would return to Geneva for an 802 mtg.:
* Would not return to Geneva for an 802 mtg.:

**Status Reports**

802.18 by John Notor

* 4 sessions remaining this week.
* Working on responses.

802.15 task group status

802.15. 4 Revision

report by Pat Kinney:

* The Chair will submit a request to EC for revision to PAR for 802.15.4
* Chair reviewed the PAR document for the revision of 802.15.4-2011
* Motion  
  that 802.15 WG request that 802 EC forward PAR, document 15-13-0428-01, to NesCom

Moved by Ben Rolfe, seconded by Clint Powell

Upon no discussion the vote was taken with the following results: 53/0/0, the motion carries.

TG4m by Sangsung Choi

* Closing report given (15-13-0453-00)
* Used only 1 of 3 sessions
* Motion  
  that 802.15.WG requests approval from 802 Executive Committee to submit D3P802-15-4m\_Draft\_Standard.pdf to Sponsor Ballot

Moved by Jon Adams, seconded by Clint Powell

Upon no discussion the vote was taken with the following results: 48/0/0, the motion carries.

* Motion   
  CS Sum, C Powell, Soo-Young Chang, H Harada, B Rolfe, K Waheed, R Salazar, C Seibert, A Petrick, M Gillmore, J Kent, F Kojima, A Liru, M Zhou, K Shah, J Gilb, Jaehwan Kim

Recommended Chair: P Beecher   
802.15 WG moves that the above members continue as a Ballot Resolution Committee for TG4m during Sponsor Ballot.  
Moved by Jon Adams, seconded by Ben Rolfe

Upon no discussion the vote was taken, the motion carries with unanimous consent.

* Motion  
  that 802.15 WG approves minutes of TG4m conference call held on 19 June 2013, document # 15-13-0445-01-004m-BRC-conference-call-minutes-19-june-2013

Moved by Phil Beecher, seconded by X

Upon no discussion the vote was taken, the motion carries with unanimous consent.

TG4n CMB by Art Astrin

* Had 3 out of 4 sessions so far.
* Updated the draft twice, doc #447-00 to 447-01

TG4p PTC by Jon Adams

* Closing report given (15-13-0449-02)
* Preparing draft to got to sponsor ballot
* Request for TG approval to go to sponsor ballot slated for mid-week plenary
* Motion   
  hat IEEE 802.15 requests unconditional approval from the EC to submit D2P802-15-4p\_draft \_standard.pdf to Sponsor Ballot

Moved by Ben Rolfe, seconded by Art Astrin

Upon no discussion the vote was taken with the following results: 54/0/0, the motion carries.

* Motion  
  that IEEE 802.15.4p requests approval from IEEE 802.15 WG to establish BRC for Sponsor Ballot.  
  Members to be Ben Rolfe (Blind Creek), Monique Brown (MB Brown), Jon Adams (Lilee Systems), Dietmar Eggert (Atmel), Meng-Doong Chang (Lilee Systems)

Moved by Rick Alfvin, seconded by Steve Jillings

Upon no discussion the vote was taken, the motion carries with unanimous consent.

TG4q ULP by Shariar Emami

* Continue editing of technical guidance doc

TG8 PAC by Myung Lee

* 19 proposals are being heard

TG9 KMP by Bob Moskowitz

* 2 of 3 sessions held with good progress on the document and open items.
* All KMP stakeholders on board.
* No September meeting (key mbrs. conflict with 802.1 mtg. in Sept.)
* Goal is a complete document for workgroup review for Nov.

SG L2R by Clint Powell

* 6 sessions this week
* Address comments/feedback from 802 on PAR/5c
* Make request at EOW EC to move to TG
* Motion  
  that the PAR and 5C contained in documents 15-13-0231-03 and 15-13-0232-03, respectively, be approved by the 802.15 WG and that the 802 EC be requested to forward the revised PAR to NesCom. The 802.15 working group chair and technical editor are authorized to make additional modifications to the PAR and 5C as needed to reflect EC discussion at its closing meeting

Moved by Clint Powell, seconded by Jay Ramasastry

Upon no discussion the vote was taken with the following results: 45/0/1, the motion carries.

IG LED by Prof Jang

* Hearing presentations
* Discussing on camera communications

IG THZ by Tomas Kürner

* 1 session remaining to discuss next steps
* 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 100 Gbit/s over beam switchable wireless point-to-point links (100GbW)

Moved by Tomas Kürner, seconded by Rick Roberts

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

* Motion  
  that the 802.15 Working Group requests that 802.18 request the EC to submit the letter (15-13-0410-01) to FCC to Support of IEEE-USA Petitions FCC for Spectrum Ruling to Spur New Technologies

Moved by Tomas Kürner, seconded by Rick Roberts

Upon no discussion the vote was taken, the motion carries with unanimous consent.

* The Chair appoints Tomas Kürner of the Study Group
* Motion  
  that IEEE 802.15 approve that Tomas Kürner become the SG Chair upon the formation of the Study Group

Moved by Clint Powell, seconded by James Gilb

Upon no discussion the vote was taken, the motion carries with unanimous consent.

IG SRU by Shoichi Kitazawa

* 1 session remaining to discuss next steps
* 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 Spectrum Resource Utilization (SRU)

Moved by Shoichi Kitazawa, seconded by Shusaku Shimada

Upon no discussion the vote was taken with the following results: 47/0/2, the motion carries.

* The Chair appoints Shoichi Kitazawa of the Study Group
* Motion  
  that IEEE 802.15 approve that Shoichi Kitazawa become the SG Chair upon the formation of the Study Group

Moved by Jon Adams, seconded by James Gilb

Upon no discussion the vote was taken, the motion carries with unanimous consent.

IG DEP by Ryuji Kohno

* 2 sessions this week
* Discussed use cases, application metrics, call for applications

SC WNG by P Kinney

* 5 presentations including one from SRU and one from OmniRAN to be given immediately following 802.15 mid-session plenary meeting

SC Maint. by P Kinney

* 2 sessions this week
* 3 items for ETSI discussed – details to be given in WG closing

**14:57** The chair recesses until Thursday at 16:00

**802.15 closing plenary meeting**

**16:00** Acting Chair called the meeting to order.

Announcements:

* Registration for Nanjing is up and running
* Get your attendance correct, IEEE is not your affiliation
* Motion  
  that the WG request the 802 EC to extend SGL2R for the next cycle

Moved by Clint Powell, seconded by Ben Rolfe

Upon no discussion the vote was taken with the following results: 33/0/1, the motion carries.

**Status Reports**

802.15 task group status

TG4n CMB Closing Report by Art Astrin (15-13-0465-00)

TG4q ULP Closing Report by Shariar Emami (15-13-0471-00)

TG8 PAC Closing Report by Myung Lee (15-13-0473-00)

TG9 KMP Closing Report by Peter Ye (15-13-0444-00)

SG L2R Closing Report by Clint Powell (15-13-0466-00)

* Motion  
  that the PAR and 5C contained in documents 15-13-0231-04 and 15-13-0232-04, respectively, be approved by the 802.15 WG and that the 802 EC be requested to forward the revised PAR to NesCom. The 802.15 working group chair and technical editor are authorized to make additional modifications to the PAR and 5C as needed to reflect EC discussion at its closing meeting

Moved by Clint Powell, seconded by Jay Ramasastry

Upon no discussion the vote was taken with the following results: 45/0/1, the motion carries.

IG LED Closing Report by Prof Jang (15-13-0467-00)

IG THZ Closing Report Tomas Kürner (15-13-0459-00)

IG SRU Closing Report by Shoichi Kitazawa (15-13-0469-00)

IG DEP Closing Report by Art Astrin (15-13-0455-00)

SC WNG & Maint. Closing Report by Pat Kinney (15-13-0461-00)

802.11 liaison report by Clint Chaplin (15-13-0472-00)

802.19 liaison report – no one appointed for this week, please see minutes from 802.19

802.24 liaison report by James PK TrainWreck Gilb

* Met 3 times this week
* Worked on an ITU response document
* Started working on a white paper

802.18 liaison report by John Notor (15-13-0463-01)

New Business (Straw Poll question on closing session time):

* Those that prefer the WG to close in PM2 on Thurs. : 38
* Those that prefer the WG to close in PM3 on Thurs. : 5

**AOB**

Call by The Chair and Vice Chair: Rick Alfvin to get your attendance in before the close of the closing plenary, IOW NOW!

Jay Ramasastry asked that Beijing location be reconsidered. Clint Chaplin explained that that cannot be changed. He also notified the WG that going forward to expect 1 venue per year in Europe, 1 venue per year in Far East, and 4 in North America.

Reminder by The Chair to register for the Nanjing mtg.

Motion to adjourn was made by Steve Jillings, seconded by Rick Alfvin, upon no objection the motion carried, this session is adjourned.

**Annex A** Attendance = 119

|  |  |  |
| --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** |
| Adams | Jon | Lilee Systems |
| Ahn | Junbae | Jeongahn |
| Alfvin | Richard | Verilan |
| Anderson | Nicholas | Research In Motion Limited |
| Astrin | Arthur | Astrin Radio |
| Beecher | Philip | Wi-SUN Alliance |
| Beer | Frederik | University of Erlangen-Nuremberg, Fraunhofer IIS |
| Braun | Ralf-Peter | Deutsche Telekom AG |
| Bynam | Kiran | SAMSUNG |
| Cai | Yunlong | Huawei Technologies Co. Ltd |
| Callaway | Edgar | Sunrise Micro Devices, Inc. |
| Canchi | Radhakrishna | Kyocera Communications Inc. |
| Chang | Kuor-Hsin | Elster Solutions |
| Chang | Soo-Young | California State University, Sacramento (CSUS) |
| Chaplin | Clint | Samsung Information Systems America, Inc. |
| Chen | Zhi | UESTC |
| Cheong | Minho | ETRI |
| Cho | Seungkwon | ETRI |
| Cho | Sungrae | Chung-Ang University |
| Choi | Sangsung | ETRI |
| Chun | Jinyoung | LG ELECTRONICS |
| Dolmans | Guido | Holst Centre / IMEC-NL |
| Dotlic | Igor | NICT |
| Eggert | Dietmar | Atmel Corporation |
| Emami | Shahriar | Samsung Information Systems America, Inc. |
| Evans | David | Philips Electronics |
| Fang | Chao | China Academy of Telecommunication Research (CATR) |
| Flammer | George | Silver Spring Networks Inc. |
| Fukui | Kiyoshi | Oki Electric Industry Co., Ltd. |
| Gilb | James | Tensorcom, Inc. |
| Gillmore | Matthew | Itron Inc. |
| Giraud | Claude | NXP Semiconductors |
| Godfrey | Tim | Electric Power Research Institute, Inc. (EPRI) |
| Haapola | Jussi | Centre for Wireless Communications / University of Oulu |
| Hara | Shinsuke | Osaka City University (OCU) |
| Harada | Hiroshi | NICT |
| Harrington | Timothy | WhereNet - Zebra ESG |
| Herbst | Thomas | Silver Spring Networks Inc. |
| Hernandez | Marco | NICT |
| Hosako | Iwao | NICT |
| Huang | Heqing | Wuxi SensingNet Industrialisation Research Institute |
| Huang | Li | Holst Centre / IMEC-NL |
| Hur | Junbeom | Chung-Ang University |
| Hwang | Jung-Hwan | ETRI |
| Jang | Yeong Min | Kookmin University |
| Jeong | Wuncheol | ETRI |
| Jillings | Steven | Semtech Corporation |
| Jin | Sunggeun | Daegu University |
| Joo | Seong-Soon | ETRI |
| Kang | Sungweon | ETRI |
| Kasamatsu | Akifumi | NICT |
| Kato | Toyoyuki | Anritsu Engineering Co.,Ltd, |
| Kent | Jeritt | Analog Devices Inc. |
| Kim | Jaehwan | ETRI |
| Kim | Jeongki | LG ELECTRONICS |
| Kim | Jinkyeong | ETRI |
| Kim | Seokki | ETRI |
| Kim | Suhwook | LG ELECTRONICS |
| Kim | Youngsoo | SAMSUNG |
| Kinney | Patrick | Kinney Consulting LLC |
| Kitazawa | Shoichi | ATR Wave Engineering Laboratories |
| Kivinen | Tero | INSIDE Secure |
| Kohno | Ryuji | YNU/CWC-Nippon |
| Kuerner | Thomas | TU Braunschweig |
| Kwak | Byung-Jae | ETRI |
| Lan | Zhou | NICT |
| Lee | Jae Seung | ETRI |
| Lee | Jae-Ho | ETRI |
| Lee | Myung | CUNY - City University of NY |
| Li | Huan-Bang | NICT |
| Li | Qing | InterDigital, Inc. |
| Lynch | Michael | Nortel Networks |
| Mano | Hiroshi | Allied Telesis R&D center K.K. |
| Mc Laughlin | Michael | DecaWave |
| Millet | Charles | Analog Devices Inc. |
| Mori | Kenichi | Pansonic Corporation |
| Moskowitz | Robert | Verizon |
| Na | Woongsoo | Chung-Ang University |
| Nair | Jinesh | SAMSUNG |
| Ngo | Chiu | SAMSUNG |
| Notor | John | Silver Spring Networks Inc. |
| Ogawa | Hiroyo | Association of Radio Industries and Businesses (ARIB) |
| Ozaki | Kazuyuki | FUJITSU LABORATORIES LIMITED |
| Park | Giwon | LG ELECTRONICS |
| Park | Seung-Hoon | Samsung |
| Park | Taejoon | ETRI |
| Poegel | Frank | Atmel Corporation |
| Powell | Clinton | PWC, LLC |
| Rabarijaona | Verotiana | NICT |
| Ramasastry | Jayaram | Silver Spring Networks Inc. |
| Rey | Sebastian | Technische Universitat Braunschweig |
| Roberts | Richard | Intel Corporation |
| Rolfe | Benjamin | Blind Creek Associates |
| Ryu | Cheol | ETRI |
| Salazar Cardozo | Ruben | Landis Gyr Group Worldwide |
| Sasaki | Shigenobu | Niigata University |
| Sato | Noriyuki | Oki Electric Industry Co., Ltd. |
| Schwoerer | Jean | France Telecom |
| Seibert | Cristina | Silver Spring Networks Inc. |
| Sekine | Norihiko | NICT |
| Seo | Dong-Wook | ETRI |
| Shah | Kunal | Silver Spring Networks Inc. |
| Shimada | Shusaku | Schubiquist Technologies Guild |
| Song | Chunyi | NICT |
| Sum | Chin-Sean | NICT |
| Tanaka | Hirokazu | TOSHIBA Corporation |
| Taylor | Larry | DTC (UK) |
| Tsai | Chia-Lung | ITRI |
| Verso | Billy | DecaWave |
| Victor | Dalton | Silver Spring Networks Inc. |
| Villardi | Gabriel | NICT |
| Walewski | Joachim | Siemens AG |
| Yaita | Makoto | Microsystem Integration Laboratories NTT |
| Yamamoto | Takashi | Sumitomo Electric Industries, LTD |
| Yang | Liwei | China Academy of Telecom. Research (CATR), MIIT |
| Yee | Peter | NSA/IAD |
| Yu | Jeongseok | Chung-Ang University |
| Zhao | Bingxuan | Niigata University |
| Zhou | Mingtuo | NICT |