**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 | [16 September 2010] | |
| Source | [] [] [Chicago, IL] | Voice: [+1.847.960.3715] Fax: [+1.630.524.9054] E-mail: [pat.kinney@ieee.org] |
| Re: | [802.15 Interim Meeting in Waikoloa, HI] | |
| Abstract | [IEEE 802.15 Working Group Minutes] | |
| Purpose | [Official minutes of the Working Group Session] | |
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**IEEE 802.15 Interim Meeting – Session #68**

**Hilton Waikoloa, Waikoloa, HI, USA**

**September 13-16, 2010**

**Monday, 13 September 2010**

**8:03** 802.11, 802.15, 802.18, 802.19, 802.22, and 802.23 Chairs called the joint meeting to order. IEEE 802.15 attendance is included as Annex A.

General announcements:

* Attendance will be collected via the IMAT

Straw Poll of new attendees: 2

**8:06** Financial report by Jon Rosdahl, (11-10-1094-00, 15-10-0700-01)

* 10 Jul 10 balance was $350,514.43
* 12 Sep 10 balance was $349,002.84
* Additional funds in face-face $59,493
* Beijing
* 426 registrations
* Meeting expense ~$403,453
* SIMIT Sponsorship $111,528
* Surplus $0
* Waikoloa
  + 370 registered (as of Saturday)
  + Registration Income: $252,450
  + Expected deficit: $8,839

**8:12** IEEE patent policy

802.15 WG chair read the IEEE-SA instructions for the WG chair and displayed the four slides explaining patent policy and informed the attendees that additional information could be found on the patcom web site.

Chair asked participants 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 the use of that standard in the appropriate WG.

802.15 WG chair read IEEE anti-trust policy

**8:16** Wireless announcements: (15-10-0038-05)

Wireless Network Updates by Rick Alfvin

* <https://murphy.events.ieee.org/imat/login>

**8:20** Review Interim meetings

* 16 – 21 Jan 2011, Hyatt Century Plaza, Los Angeles, CA, USA
* 8 – 13 May 2011, Hyatt Grand Champion, Palm Springs, CA, USA
* 18 – 23 Sep 2011, Okinawa Convention Center, Okinawa, JP
* 15 – 20 Jan 2012, …pending, location to be determined
* 13 – 18 May 2012, Hyatt Regency Atlanta, Atlanta, GA, USA
* 9 – 14 Sep 2012, Hilton Waikoloa Village, Big Island, HI, USA

**8:21 Task Group Updates**

* 802.11 by B Kramer, Marvin (276 voters)

4 Smart Grid Meetings this week to prepare comments on NIST PAP#2

802.11 20th anniversary press release and facebook page

TGMB - maintenance

TGU: interworking with external networks

TGV: wireless network management

TGZ: DLS-Direct Link Setup

TGAA: video transport streams

TGAC: VHT L6

TGAD VHT60

TGAE-QoS Mgmt

TGAF-TV whitespace

Study Groups: FIA, S1G

Ad Hoc Groups: JTC1, Smart grid, Regulatory

802.15 (215 voters, 51 nearly voters)

WNG: next generation

TG4e: MAC enhancements

TG4f: RFID applications

TG4g: SUN applications

TG4h/i: revision/corrigenda

TG6 (BAN): comment resolution

TG7 (VLC TG): comment resolution

Study Groups: Personal Environment Services (PSC), Medical BAN (MBAN), Low Energy Critical Infrastructure Monitoring (LECIM)

Interest Groups: Host Identity Protocol (HIP)

802.18 Regulatory WG –John Notor

* 802.11 requested time to discuss issues within 60 GHz

802.19 Coexistence WG - Steve Shellhammer (45 voters)

* 802.15.4f requested time to discuss coexistence

802.22 Wireless Regional Area Network – Apurva Mody (25 voters)

* working on comment resolution of P802.22.1 and P802.22.2

802.23 Emergency Services - Thompson

**8:43** Joint meeting adjourned

**9:31** B Heile (ZigBee Alliance), WG chair called the 802.15 WG plenary to order

Chair reminded attendees, and spoke to the highlights, of the IEEE-SA Standards Board Bylaws on Patents in Standards. Chair referred those who wished to review these policies that the IEEE-SA patent policy presentation slides 0-5 and reading the instructions for the WG Chair. (<http://standards.ieee.org/board/pat/pat-slideset.ppt>).

Chair asked participants 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 the use of that standard, there were no responses.

Chair reminded participants of anti-trust rules and obligations.

Approve/modify opening agenda (15-10-0638-03-0000)

* Moved by Ben Rolfe, seconded by Phil Beecher. Following neither discussion nor dissent the agenda was approved.

Review and approve joint minutes from the San Diego session (15-10-0515-01-0000)

* Moved by R Alfvin, seconded by Art Astrin. Upon neither discussion nor objection the joint minutes were approved.

**9:37** Wireless announcements (15-10-0038-06)

* R Alfvin described the wireless network structure

**9:45** motion to change closing meeting to open at 6 pm, seconded by E Calloway. Upon no discussion the vote was taken: 28/3/3, motion carries, closing meeting to start at 6:00 pm.

**9:49** WG recessed

**Wednesday 15 Sep 2010**

**802.15 mid-session plenary meeting**

**10:33** Bob Heile called the meeting to order.

**10:35 802.18 WG status** by John Barr (15-10-0767)

Motion*:**That 802.15 WG approve document 15-10-0760-00 as joint submission to 802.18 TAG as a response to “Report and a Recommendation on Multiple Gigabit Wireless Systems (MGWS) operating around 60 GHz”.*

* *Moved: John Barr*
* *Second: Shu Kato*

Upon neither discussion nor objection the motion carries with unanimous consent

**10:40** **Mid-week status updates**

**TG4e** by P Kinney

* Comment resolution complete
* Preliminary draft revisions will continue with goal of WG letter ballot draft standard after this session

**TG4f** by T Harrington

* Drafting draft standard text
* Goal is to seek letter ballot after November session

**TG4g** by P Beecher

* Working on comment resolutions from LB52 (142 remaining)
* Goal is to seek letter ballot after this session

**TG4h** by P Kinney

* Backburner until merged into TG4i

**TG4i** by J Gilb

* Goal is to seek letter ballot after this session

**TG6 (BAN)** by A Astrin

* Working on comment resolutions
* Goal is to recirculate after November session

**TG7 (VLC)** by Eun Tae Won

* Resolving comments
* Goal is to recirculate after September session

**MBAN SG** by Ray Krasinski (15-10-0761)

Comment: grammar mistakes in the scope which are easily corrected

Motion*: request that the PAR and Five Criteria contained in documents 15-10-260-07 and 15-10-0261-03 be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval.*

• Moved: by Ray Krazinski and seconded by Peter Murray

Vote was taken with the results of 46/0/3, motion carries.

**PSC SG** by Peter Murray

* Working on the PAR and 5 Criteria
* Intent is to seek approval by WG this session

**LECIM SG** by David Howard

* Working on drafting the PAR and 5 Criteria
* Intent is to complete by end of session and seek WG approval

**HIP IG** by Robert Moskowitz

* Intent to have conference call before November session
* Investigating having a tutorial at November session

**WNG** by P Kinney

The WNG meeting will have a presentation on “A Proposal towards Better Use of Spectrum Resources in future WPAN” by Shoichi Kitazawa

**AoB**

* Chair solicited a volunteer to act as a liaison to 802.19…WG chair will actively recruit this volunteer.
* Motion*:**To add a table reflecting the 802.15.3 data rates to the joint submission to 802.18 TAG as a response to “Report and a Recommendation on Multiple Gigabit Wireless Systems (MGWS) operating around 60 GHz”.*
* *Moved: James Gilb*
* *Second: John Barr*

Upon neither discussion nor objection the motion carries with unanimous consent

**11:15** Recessed until Thursday at 18:00

**Thursday, 16 September 2010**

**18:06** WG chair called the meeting to order (agenda 15-09-0638-03)

**18:08** TG4g Closing Report by Phil Beecher (15-10-0807-00)

Closed 558 comment with 13 remaining technicals, TG4g believed it was sufficient to move onward to letter ballot

*Move that 802.15 WG start a WG Letter Ballot requesting approval to forward document d1P802-15-4g\_Draft\_Standard.pdf, edited in accordance with comment spreadsheet P802.15-10-0283-25-004g, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

 Moved:  Ed Callaway

Seconded:  John Lampe

Upon neither discussion nor objection the motion carries by unanimous consent

Motion: *that the 802.15 Working Group seeks approval from the 802 EC to form a study group to develop the PAR and 5c documents for SUN applications in the TV Whitespace*

Moved by: Phil Beecher

Seconded by John Lampe

Upon no discussion the vote was taken with the results of 51/0/1, motion carries

**18:14** 802.18 Liaison by J Barr (15-10-767-01)

Motion*:**That 802.15 WG approve documents 18-10-0063-00 and 18-10-0064-00 as joint submission to ITU as a response to “Report and a Recommendation on Multiple Gigabit Wireless Systems (MGWS) operating around 60 GHz”.*

* *Moved: John Barr*
* *Second: Shu Kato*

Upon neither discussion nor objection the motion carries by unanimous consent

**18:24** TG4e Closing Report by P Kinney (15-10-0800-02)

*Move that the 802.15 WG approve the start a WG Letter Ballot requesting approval to forward the P802.15.4e Draft D2 [d2P802-15-4e\_Draft\_Standard.pdf] to Sponsor Ballot pending the completion and inclusion of remaining edits to D1 [d1P802-15-4e\_Draft\_Standard.pdf] as per 15-10-0321-10 in the draft*

Moved by Pat Kinney and seconded by Ben Rolfe. Upon neither discussion nor objection the motion carries by unanimous consent.

**18:28** TG4f Closing Report by Tim Harrington (15-10-0791-02)

**18:30** TG4i Closing Report by James Gilb (15-10-0793-00)

Move *that the 802.15 WG approve the start of a WG Letter Ballot requesting approval to forward document P802.15.4i-D00, edited in accordance with comment spreadsheet 15-10-0705-00-004i-D00-comments.xls, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

Moved by James Gilb and seconded by Monique Brown

Upon neither discussion nor objection the motion carries with unanimous consent

**18:31** Motion to affirm Dr James Gilb as chair of TG4i moved by Rick Alfvin and seconded by Art Astrin. Upon neither discussion nor objection the motion carries by unanimous consent

**18:34** TG6 Closing Report by Art Astrin (15-10-0787-00)

Will there be a motion to recirculate the revised draft? The revised draft is not ready for recirculation. The TG would need to either approve the draft or empower the editor to revise the draft and to request the WG to recirculate the revised draft.

Comments were made that the TG6 motion to reject the 13 remaining comments was out of order due to lack of justification for their rejections.

**18:51** TG7 Closing Report by Eun Tae Won (15-10-0804-00)

Move *to authorize Rick Roberts, Sang-Kyu Lim, and Sridhar Rajagopal as the 802.15.7 Comment Resolution Oversight Committee chaired by Eun Tae Won; said committee to expire at the beginning of the November 2010 802 Plenary meeting. The Comment Resolution Oversight Committee is authorized to approve the resolutions and approve start of the next recirculation of the 15.7 draft on behalf of the Working Group.*

*Comment resolution on Recirculations 1(current) and 2 (next) will be conducted via reflector email and via teleconferences announced to the reflector at least 7 days in advance*.

Moved by Eun Tae and seconded by James Gilb

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

**18:58** MBAN SG by Ray Krasinski (15-10-0789-00)

**19:00** PSC SGby Peter Murray (15-10-0805-00)

Motion: *request that the PAR and Five Criteria contained in documents 15-10-0635-03 and 15-10-0636-02 be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval.*

Moved: by Peter Murray and seconded by Art Astrin

Upon no discussion the vote was taken with the results of 26/1/1, the motion carries.

**19:05** LECIM SGby David Howard (15-10-0797-01)

Motion: *request that the PAR and Five Criteria contained in documents 15-10-0756-04 and 15-10-0757-02 be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval.*

Moved: by David Howard and seconded by Ben Rolfe

Upon no discussion the vote was taken with the results of 37/0/0, the motion carries.

**19:14** WNG closing report by Pat Kinney (15-10-0803-00)

**19:15** 802.11 Liaison report by Clint Chaplin (15-10-0806-00)

**19:19** 802.11 WNG Liaison report by Clint Chaplin (15-10-806-00)

**19:22** SGIP by B Heile: meeting in St Louis this week

**19:23** PAP2 by B Heile: looking for simulations

**19:25** P2030 by B Heile: writing committee is meeting this month

**19:28** ZigBee Alliance Report by Bob Heile

* Smart energy is moving along

**19:30** Motion to approve Shu Kato as liaison officer to 802.19 moved by James Gilb and seconded by Phil Beecher

**19:31** motion *to adjourn* was made by Clint Chaplin, seconded by Tim Harrington, upon no objection the motion carried, this session is adjourned.

**Annex A** Attendance = 174

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

|  |  |
| --- | --- |
| Adams | Jon |
| Ahn | Gahng-Seop |
| Aiello | Roberto |
| Alfvin | Richard |
| An | Wei |
| Asano | Takamasa |
| Astrin | Arthur |
| Aust | Stefan |
| Bae | Taehan |
| Barr | John |
| Batra | Anuj |
| Baykas | Tuncer |
| Beecher | Philip |
| Boytim | Mathew |
| Bradley | Peter David |
| Brown | Monique |
| Buchanan | Brian |
| Buffington | John |
| Bynam | Kiran |
| Cain | Brent |
| Callaway | Edgar |
| Calvert | Chris |
| Cao | Zhen |
| Cardozo | Ruben Salazar |
| Chandler | Russell |
| Chang | Kuor-Hsin |
| Chang | Soo-Young |
| Chaplin | Clint |
| Chebbo | Hind |
| Cho | Jihoon |
| Choi | In-Kyeong |
| Choi | Jee-Yon |
| Choi | Sangsung |
| Dahl | Matthew |
| Davenport | David |
| Dawkins | Mark |
| Domino | William |
| Dotlic | Igor |
| Dow | Michael |
| Eun | Changsoo |
| Evans | David |
| Filippo | Will San |
| Fischer | Michael |
| Flammer | George |
| Fukatsu | Noriyasu |
| Fukui | Kiyoshi |
| Geiger | John |
| Gilb | James |
| Godfrey | Tim |
| Goel | Shashank |
| Gottlib | Elad |
| Hagino | Brian |
| Harada | Hiroshi |
| Harrington | Timothy |
| Hayashi | Koichiro |
| Heile | Robert F. |
| Hemminger | Rodney |
| Hernandez | Marco |
| Higashi | Ryoichi |
| Hillman | Garth |
| Ho | Jin-Meng |
| Hosur | Srinath |
| Howard | David |
| Hwang | Jung-Hwan |
| Ida | Ichirou |
| Iso | Akio |
| Jennings | Adrian |
| Jeon | Young-Ae |
| Jetcheva | Jorjeta |
| Jillings | Steven |
| Joo | Seong-Soon |
| Kato | Shuzo |
| Kent | Jeritt |
| Khakuria | Prithpal |
| Kim | Byung Moo |
| Kim | Jinkyeong |
| Kim | Yunjoo |
| Kim | Jaehwan |
| King | Jeffrey |
| Kinney | Patrick |
| Kitazawa | Shoichi |
| Kohno | Ryuji |
| Kraemer | Bruce |
| Krasinski | Raymond |
| Lampe | John |
| Lan | Zhou |
| Le | Khanh Tuan |
| Lee | Hoosung |
| Lee | Myung |
| Lee | Yuro |
| Lee | Hyungsoo |
| Lewis | Daniel |
| Li | Huan-Bang |
| Lichtensteiger | Bill |
| Lim | Sang-Kyu |
| Link | Jeremy |
| Lynch | Michael |
| Mason | Robert |
| Masuoka | Ryusuke |
| Mcgillan | Michael |
| Millet | Charles |
| Miniutti | Dino |
| Mirnezami | Siamak |
| Mohindra | Rishi |
| Morozumi | Masanori |
| Moskowitz | Robert |
| Moy | Hamilton |
| Murray | Peter |
| Naganuma | Ken |
| Ngo | Chiu |
| Obkircher | Thomas |
| Oh | Jong-Ee |
| Oh | Mi-Kyung |
| Olson | David |
| Omeni | Okundu |
| Park | Hyung-Il |
| Park | Seung-Hoon |
| Park | Jaewoo |
| Patro | Ranjeet |
| Peng | Xiaoming |
| Petro | John |
| Poegel | Frank |
| Pokrajac | Dalibor |
| Popa | Daniel |
| Pope | Steve |
| Powell | Clinton |
| Powell | Richard |
| Rajagopal | Sridhar |
| Ramasastry | Jayaram |
| Reed | Marc |
| Riou | Emmanuel |
| Roberts | Richard |
| Roh | June Chul |
| Rolfe | Benjamin |
| Sagan | Didier |
| Sakamoto | Kentaro |
| Sato | Naotaka |
| Sawai | Ryo |
| Schmidl | Timothy |
| Seibert | Cristina |
| Shah | Kunal |
| Shearer | Steve |
| Shellhammer | Stephen |
| Shimizu | Masashi |
| Shin | Cheol Ho |
| Simon | Jonathan |
| Son | Jaeseung |
| Son | Ju-Hyung |
| Sum | Chin-Sean |
| Sung | Hui-Hsia |
| Tabroff | Ronald |
| Taylor | Larry |
| Tomcik | James |
| Toyoda | Ichihiko |
| Van Greunen | Jana |
| Van Wyk | Hartman |
| Verso | Billy |
| Virk | Bhupender |
| Waheed | Khurram |
| Walewski | Joachim |
| Walter | Udo |
| Wang | Qin |
| Wang | Junyi |
| Wang | Xiang |
| West | Nicholas |
| Winkel | Ludwig |
| Won | Euntae |
| Woo | Pyo Chang |
| Yang | Yang |
| Yasukawa | Kazuyuki |
| Yazdandoost | Kamya |
| Yew | Tan Pek |
| Yokoyama | Akihisa |
| Zhao | Mu |