**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 | [21 January 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 Los Angeles, CA] | |
| 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 #64**

**Hyatt Century Plaza, Los Angeles, CA, USA**

**January 17-22, 2010**

**Monday, 18 January 2010**

**8:05** 802.11, 802.15, 802.18, 802.19, 802.20, and 802.22 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
* Workshop/tutorial tonight

Straw Poll of new attendees: 15

**8:09** 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

**8:13** Financial report by Jon Rosdahl, (11-10-0074-00, 15-10-0030-00)

* 14 Nov 09 balance was $313,287.43
* 17 Jan 10 balance was $313,336.27
* Additional funds in face-face $24,729
* Waikoloa
  + >389 registered
  + Registration Income: $262,200
  + Expected surplus: $9,001

**8:17** Wireless announcements: (15-10-0038-00)

Wireless Network Updates by Rick Alfvin

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

**8:20** Review Interim meetings

* 16 - 21 May 2010 – Shangri-La Beijing, Beijing, PRC
  + 15 May SIMIT workshop
* 12-17 Sep 2010, Hilton Waikoloa Village, Big Island, HI, USA
* 16 – 21 Jan 2011, TBD (could be back in LA)

**8:25 Task Group Updates**

* 802.11 by B Kramer, Marvin (~250 voters)

TGP: vehicular WG ballot comment resolution

TGS: comment resolution

TGU: comment resolution

TGV: network management

TGZ: TDLS

TGAA: video transport

TGAC: VHT 5 GHz

TGAD VHT 60 GHz

TGAE-QoS Mgmt

TGAF-TV whitespace

New Projects (adhoc)

* + Smart grid
  + Energy Star

802.15 (211 voters, 40 nearly voters)

WNG: next generation

TG4e: MAC enhancements

TG4f: RFID applications

TG4g: SUN applications

TG6 (BAN): merging proposals

TG7 (VLC TG): critiquing baseline

IG-Personal Environment Svc

802.18 Mike Lynch (20 voters)

* Filing comments with FCC whitespace data mgmt
* EN 300-328 follow-up

802.19 Steve Shellhammer (21 voters)

* Now a Work Group on white space coexistence

802.20 Mark Klerer (8 voters)

802.22 Gerald Chouinard (29 voters)

* working on comment resolution of 2nd draft of standard

Emergency Services

* 2 meeting slots within 802.11 to all interaction

Smart Grid (802)

* PAP2 – NIST listing of potentially appropriate wireless technologies
* IEEE2030 meeting next week in Detroit

**8:53** Joint meeting adjourned

**9:33** B Heile (ZigBee Alliance), WG chair called the 802.15 WG plenary to order

Chair reminded attendees that 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 joint opening agenda (15-09-0832-02-0000)

* Moved by R Alfvin, seconded by A Astrin. Following neither discussion nor dissent the agenda was approved.

Review and approve joint minutes from the Atlanta meeting (15-09-0761-00-0000)

* Moved by J Lampe, seconded by C Powell. Upon neither discussion nor objection the joint minutes were approved.

**9:42** Wireless announcements (15-10-0038-00)

* R Alfvin described the wireless network structure

**9:50** WG recessed

**Wednesday 20 Jan 2010**

**802.15 mid-session plenary meeting**

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

**10:35** ECSG Emergency Services update by G Thompson ([10-0017-00-ESSG](https://mentor.ieee.org/802-sg-emergency-services/dcn/10/sg-emergency-services-10-0017-00-ESSG-es-report-to-802-15.pdf))

* Are there government documents on the requirements?
  + Yes, go to [FCC web page](ttp://www.fcc.gov/cgb/consumerfacts/voip911.html)
* Comment that individuals should urge their legal depts. to check into these regulations

**10:52** **Mid-week status updates**

**TG4e** by P Kinney

* Comment resolution on preliminary draft
* FCF merger subgroup has a proposal for TG4e consideration
* Preliminary draft revisions will continue with goal of WG letter ballot draft standard after this session

**TG4f** by M McInnis

* Agreed upon baseline ([804r4](https://mentor.ieee.org/802.15/dcn/09/15-09-0804-04-004f-tg4f-merged-proposal-decawave-guard-rfid-time-domain-ubisense-zes.pptx))
* Drafting draft standard text
* Goal is to seek letter ballot after March session

**TG4g** by P Beecher

* Working on comment resolutions on rough draft
* Goal is to seek letter ballot after this session

**TG6 (BAN)** by A Astrin

* Working on merging proposals into a baseline document
* Goal is to seek letter ballot after March session

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

* Resolving comments on baseline document

**PSC IG** by Peter Murray

* Request four meeting slots at Orlando session
* Request tutorial slot

**WNG** by P Kinney

The WNG meeting will have a presentation on Low Energy Critical Infrastructure Monitoring

**AoB** none

**11:23** Recessed until Thursday at 18:00

**Thursday, 21 January 2010**

**18:33** WG chair called the meeting to order (agenda 15-09-0832-03)

**18:34** Invitation letters for China session are now being sent out

**18:36** 802.18 Liaison by J Barr

* Approved letter to IEC considering safety of LEDs modulated for data

**18:39** 802.15.1 reaffirmation ballot pool is now open until 4 Feb

**18:44** TG4e Closing Report by P Kinney (15-09-0071-01)

**18:50** TG4f Closing Report by Mike McInnis (15-10-0072-00)

**18:55** TG4g Closing Report by Phil Beecher (15-10-0080-01)

**18:58** TG6 Closing Report by Art Astrin (15-10-0075-00)

* When does the PAR time out? In a couple of years
* Comment that PAR does not limit standard to medical

**19:09** TG7 Closing Report by Eun Tae Won (15-10-079-00)

Motion: *that the 802.15 WG conditionally approve the start a WG Letter Ballot requesting approval to forward the P802.15.7 Draft D1 to Sponsor Ballot pending the completion and inclusion of remaining edits in the draft.*

Moved by Eun Tae Won; seconded by Art Astrin

Discussion: what is the document number of spread sheet showing the comment resolutions? Reply: 15-10-0047-04

Change motion to read: *that the 802.15 WG approve the start a WG Letter Ballot requesting approval to forward the P802.15.7 Draft D1 to Sponsor Ballot pending the completion and inclusion of remaining edits to D0 as per 15-10-0047-04 in the draft.*

Changes were accepted by Eun Tae Won and Art Astrin

Upon neither further discussion nor objection the motion carries

The Task Group has authorized the TG7 Editorial Review Committee, composed of Eun Tae Won and Richard Roberts, to determine what is complete.

**19:22** WNG closing report by Pat (15-10-0067-00)

**19:26** 802.11 Liaison report by Clint Chaplin (15-10-0082-01)

**19:29** 802.11 WNG Liaison report by Clint Chaplin (15-09-704-00)

Was there any discussion as to why the motion of taking the PAR adding sub GHz ISM band into 802.11 to the WG? No

What is the process for a PAR wishing to add sub-GHz to 802.11? There is 30 day rule for comments on the PAR which must be answered during the session week.

Comment that people with 802.11 voting rights should attend tomorrow’s meeting and participate in such efforts of related email and conference calls to improve such a PAR before it would be approved

Comment that this effort was presented as Smart Grid infrastructure.

**19:45** ZigBee Alliance Report by Bob Heile

* SubGHz ZigBee platforms are now being tested

**19:47** r1 of treasurer report is out

* 419 total attendance

**19:48** motion *to adjourn* was made by J Lampe, seconded by J Gilb, upon no objection the motion carried, this session is adjourned.

**Annex A** Attendance = 202

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

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| --- | --- |
| Emad | Afifi |
| Roberto | Aiello |
| Rick | Alfvin |
| Arthur | Astrin |
| Taehan | Bae |
| Michael | Bahr |
| John | Barr |
| Anuj | Batra |
| Tuncer | Baykas |
| Philip | Beecher |
| Ashutosh | Bhatia |
| Ghulam | Bhatti |
| Gary | Birk |
| Mathew | Boytim |
| Peter | David |
| Nancy | Bravin |
| Monique | Brown |
| Brian | Buchanan |
| John | Buffington |
| Kiran | Bynam |
| Brent | Cain |
| Edgar | Callaway |
| Ruben | Salazar |
| Yvan | Castilloux |
| George | Cavage |
| Russell | Chandler |
| Kuor-Hsin | Chang |
| Soo-Young | Chang |
| Clint | Chaplin |
| Hind | Chebbo |
| Jian | Chen |
| Chang-Soon | Choi |
| Craig | Christensen |
| Matthew | Dahl |
| David | Davenport |
| Hendricus | De Ruijter |
| Gang | Ding |
| Igor | Dotlic |
| Michael | Dow |
| Colin | Duggan |
| Peter | Ecclesine |
| Dietmar | Eggert |
| Charles | Farlow |
| John | Farserotu |
| Kory | Fifield |
| Will | San Filippo |
| Jeffrey | Fischbeck |
| Michael | Fischer |
| George | Flammer |
| Noriyasu | Fukatsu |
| Kiyoshi | Fukui |
| John | Geiger |
| James | Gilb |
| Gregory | Gillooly |
| Tim | Godfrey |
| Nada | Golmie |
| Praveen | Gopalakrishnan |
| Elad | Gottlib |
| Robert | Hall |
| Jungyu | Han |
| Shinsuke | Hara |
| Hiroshi | Harada |
| Timothy | Harrington |
| Shinichiro | Haruyama |
| Robert | Heile |
| Rodney | Hemminger |
| Marco | Hernandez |
| Jin-Meng | Ho |
| Wei | Hong |
| Srinath | Hosur |
| David | Howard |
| Sterling | Hughes |
| Jung-Hwan | Hwang |
| Tetsushi | Ikegami |
| Donna | Imam |
| Akio | Iso |
| Adrian | Jennings |
| Young-Ae | Jeon |
| Wuncheol | Jeong |
| Steven | Jillings |
| Seong-Soon | Joo |
| Carl | Kain |
| Tae | Young |
| Shuzo | Kato |
| Tatsuya | Kato |
| Jeritt | Kent |
| Prithpal | Khakuria |
| Byoung | Hak |
| Dae | Ho |
| Dukhyun | Kim |
| Jaehwan | Kim |
| Jeffrey | King |
| Ryuji | Kohno |
| Stephen | Kuffner |
| Youngmi | Kwon |
| Ismail | Lakkis |
| John | Lampe |
| Zhou | Lan |
| Khanh | Tuan Le |
| Hyungsoo | Lee |
| Myung | Lee |
| Daniel | Lewis |
| Huan-Bang | Li |
| Liang | Li |
| Sang-Kyu | Lim |
| Jeremy | Link |
| Michael | Lynch |
| Robert | Mason |
| Tomokuni | Matsumura |
| Matthew | Maupin |
| Jeff | Mccullough |
| Michael | Mcgillan |
| Michael | Mcinnis |
| Charles | Millet |
| Dino | Miniutti |
| Siamak | Mirnezami |
| Rishi | Mohindra |
| Emmanuel | Monnerie |
| Robert | Moskowitz |
| Hamilton | Moy |
| Peter | Murray |
| Nobuo, | Iizuka |
| Mi-Kyung | Oh |
| Okundu | Omeni |
| Laurent | Ouvry |
| James | Pace |
| Hyung-Il | Park |
| Jahng | Park |
| Seung-Hoon | Park |
| Taejoon | Park |
| Ranjeet | Patro |
| Dalibor | Pokrajac |
| Daniel | Popa |
| Steve | Pope |
| Clinton | Powell |
| Richard | Powell |
| Jim | Raab |
| Mohammad | Rahman |
| Sridhar | Rajagopal |
| Reghu | Rajan |
| Jayaram | Ramasastry |
| Edward | Richley |
| Richard | Roberts |
| Craig | Rodine |
| June | Chul |
| Benjamin | Rolfe |
| John | Rouse |
| Olivier | Rousseaux |
| Seung-Moon | Ryu |
| Ross | Sabolcik |
| Didier | Sagan |
| Kentaro | Sakamoto |
| H | Sanderford |
| Hirokazu | Sawada |
| Kamran | Sayrafian-Pour |
| Timothy | Schmidl |
| Michael | Schmidt |
| Jean | Schwoerer |
| Cristina | Seibert |
| Kunal | Shah |
| Steve | Shearer |
| Stephen | Shellhammer |
| Chang | Sub |
| Michael | Sim |
| Jonathan | Simon |
| Kendall | Smith |
| Jaeseung | Son |
| Rene | Struik |
| Chin-Sean | Sum |
| Hui-Hsia | Sung |
| Gu | Sungi |
| Kenichi | Takizawa |
| Hirokazu | Tanaka |
| Larry | Taylor |
| Nicholas | Timmons |
| James | Tomcik |
| Ichihiko | Toyoda |
| David | Tracey |
| Jerry | Upton |
| George | Uram |
| Jana | Van Greunen |
| Hartman | Van Wyk |
| Billy | Verso |
| Bhupender | Virk |
| Joachim | Walewski |
| Junyi | Wang |
| Qin | Wang |
| Xiang | Wang |
| Andy | Ward |
| Scott | Weikel |
| Nicholas | West |
| Mark | Wilbur |
| Ludwig | Winkel |
| Eun | Tae Won |
| Alan | Chi Wai Wong |
| Pyo | Chang Woo |
| Kazuyuki | Yasukawa |
| Kamya | Yazdandoost |
| Kaoru | Yokoo |
| Jianming | Yuan |
| Mu | Zhao |
| Bin | Zhen |
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