**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 | 18 March, 2010 |
| Source | [][Kinney Consulting, LLC][Chicago, IL] | Voice: [1.847.960.3715]Fax: []E-mail: [pat.kinney@ieee.org] |
| Re: | 802.15 Plenary Meeting in Orlando |
| Abstract | IEEE 802.15 Working Group Minutes |
| Purpose | Official minutes of the Working Group Session |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
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**IEEE 802.15 Plenary Meeting – Session #65**

**Caribe Royale, Orlando, Florida**

**March 15 - 18, 2010**

**Monday, 15 March 2010**

**11:04 AM** The chair, Bob Heile, called the meeting to order.

The chairasked for new attendees to raise their hands; 5 were present.

Announcements:

* Social on Wednesday at 6:30 pm

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 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 responses to this call.

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

Rick Alfvin stated the information (IEEE 802.15-10/038r02) 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:

* 211 voting members
* 49 nearly voters
* 115 aspirants

Future Sessions

* 16 – 21 May 2010, China World Hotel, Beijing, PRC
* 11– 16 July, 2010 , Manchester Grand Hyatt, San Diego, CA, USA
* 12 – 17 Sep, 2010, Hilton Waikoloa Village, Big Island, HI, USA
* 7 – 12 Nov, 2010, Hyatt Regency Dallas, TX, USA
* 16 - 21 Jan, 2011, Hyatt Century Plaza, Los Angeles, CA, USA
* 13 - 18 Mar, 2011, Marina Bay Sands, Singapore
* 8 - 13 May, 2011, Hyatt Grand Champion, Palm Springs, CA, USA

Chair presented the EC Meeting Report (IEEE 802.15-10-0178-00)

J Barr presented the Treasurer Report (IEEE 802.15-10-0171-00)

* January 17, 2010 - $313,336.27
	+ Wachovia: $288,607.27
	+ Face-to-Face: $24,729
* March 14, 2010 - $350,118.07
	+ Wachovia: $288,607.27 + 204.80 = $288,812.07
	+ Face-to-Face: $24,729 + 36,307 = $61,306
* Reserves:
	+ Meeting Expense Reserve - $350,118

Rene Struik commented that the posted fees for the China session discriminated against non-Chinese. Chair replied that it did not.

Chair asked to have the WG approve the agenda (document IEEE 15-10-091-02-0000). Clint Powell moved *to approve the agenda*, with John Lampe seconding the motion. Following no objection the agenda was approved.

Phil Beecher moved *to approve the previous meeting minutes (document 15-10-0033-00-0000)* and Art Astrin seconded the motion. Following neither discussion nor objection the minutes were approved. No matters resulting from the previous minutes

Review 802.15 Objectives, activities, and plans for this session

* Regulatory – discussion of 802.15.4 working in the medical band

Task group reports follow:

Pat Kinney gave TG4e goals for week

* Resolve comments and send draft to letter ballot

Mike McInnis gave TG4f (RFID) goals

* Reviewing and drafting text

P Beecher gave TG4g (SUN)

* Resolve remaining comments
* Send draft to letter ballot

P Kinney gave TG4h (corrigenda)

* Review corrigenda document and send corrigenda to letter ballot

Arthur Astrin gave BAN TG6 review

* + - Hear updated and merging final proposals
		- Continue on merging efforts and updating normative text

Eun Tae Won gave TG7 goals

* Letter ballot is ongoing

TerraHz IG by D Britz

* + Three presentations

PSC IG by P Murray

* Tutorial this evening

LECIM IG by D Howard

* Objectives are to review application requirements and corresponding technical requirements and compare these against existing and developing task groups

WNG by P Kinney

* Presentation on “Initiative to enable 802.15.4 to operate in the MBAN spectrum”

802 PARs

* No comments on any of the proposed PARs

March 2010 Officer Elections

* Bob Heile stated his intention to run again for Chair position
* Rick Alfvin and Pat Kinney stated their intention to run for the 802.15 vice-Chair positions
* Motion *to approve the slate of officers* moved by Ed Callaway and seconded by Ben Rolfe. Following no discussion, the vote was taken with the results of 61/0/1, the motion carries
* James Gilb will continue as WG Editor, Pat Kinney as Secretary, M McInnis as Secretary alternate, and John Barr as Treasurer

Smart Grid activities

* OpenSG is a user group involved in SmartGrid
* NIST’s PAP2 is working on radio simulations
* P2030 committee is creating a guide for SmartGrid

EN 300 328

* TG11 is drafting new rules for coexistence in the European ISM band
	+ Grandfather clauses for Bluetooth, ZigBee, and Wi-Fi have been removed

**12:19 PM** The chair recessed the meeting

Wednesday, 17 March 2010

**10:30** Bob Heile, WG chair called the meeting to order.

WG Chair made announcements concerning social and logistics.

**10:33** Bluetooth SIG liaison by J Barr

* Low energy will be released
* 802.11n will be added

WG18 liaison by J Barr

* EN300 328 revision issues
* Thursday morning deadline for WG18 consideration

**10:36** TG4e by Pat Kinney (Kinney Consulting LLC)

* Working on comment resolution
* Intention to go to LB after session

**10:37** TG4h by Pat Kinney (Kinney Consulting LLC)

* 5 changes are currently being considered

**10:38** TG4f

* Working on UWG TBDs

**10:39** TG4g by Phil Beecher

* Working on comment resolutions

10:40 TG6-BAN by Art Astrin

* Working towards baseline draft

**10:41** TG7 by Eun Tae Won

* Draft is out for letter ballot

**10:42** Terrahz IGby D Britz

* 3 presentations
* Approved restructure website

**10:43** PSC IGby P Murray (15-10-0199-00)

Motion: *that the Working Group seeks authorization to form a study group to develop the PAR and 5c documents for the Personal Space Communications (PSC) application*

Moved by Peter Murray, seconded by David Howard

Discussion: none

Upon completion of discussion a vote was taken with the results of 34/0/20 (Y/N/A), motion carries

**10:52** LECIM IG by D Howard

* First meeting yesterday,
* Call for applications has been extended through Beijing session

**11:10** Rules by Pat Kinney

* Need operations manual written by July 2010

**10:54** 300 328 revision issues

* Medium utilization factor (MU) is defined as Tx power out (mw)/100 mw x duty cycle (%)
* Result is that for 10 mw or below (MU < 10%) allows a device to operate at a 100% duty cycle without incurring new restrictions

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

**Thursday, 18 March 2009**

**18:35** WG chair called the meeting to order

**18:37** Closing report for TG4e by P Kinney (15-10-0229-00-004e)

Motion: *Move that the 802.15 WG approve the start of a WG Letter Ballot requesting approval to forward document P802-15-4e-D1\_Draft\_Amendment.pdf, edited in accordance with comment spreadsheet 15-10-0160-04-004e and preliminary draft amendment 15-09-0604-06-004e-ieeestd802-15-4e-d0-x, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

Moved by Pat Kinney

Seconded by Art Astrin

Question about the wording of the motion

Upon no further discussion and no dissent the motion carries by unanimous consent.

**18:46** Closing report for TG4f by M McInnis (15-10-0223-00-004f)

**18:49** Closing report for TG4g by P Beecher (15-10-0228-00-004g)

*Move to suspend the WG Policies & Procedures (99/001r7) rule 2.7.2 (Draft Standard Balloting Requirements) requiring that a draft letter ballot submission be made available on the web site a week before the meeting at which it is to be discussed.*

Moved by Phil Beecher

Seconded by Ed Callaway

* Question on process of resolution of comments
	+ Reply was that numerical votes were taken with 100% approval
* Question as to why rules are being suspended
	+ Draft document was not posted the one week required by rules
* What is procedural basis for suspending rules?
	+ Draft effort was completed and requests the draft to letter ballot ASAP
* How long are the rules being suspended?
	+ Chair replied that with the motion as stated, until they are reinstated
* Individual recommend that the motion stay that way
* Next individual recommended that the rules suspended only today
* Motion to amend the motion to only apply to the next motion by Rene but amending a suspension rule is not allowed

Vote was taken with results of 41/2/5, motion carries

*Move that the 802.15 WG approve the start of a WG Letter Ballot requesting approval to forward document P802.15-10-0165-00-004g, edited in accordance with comment spreadsheet P802.15-10-0031-18-004g, to Sponsor Ballot pending the completion and inclusion of the edits in the draft. The 4g Task Group authorizes an editorial review committee composed of Phil Beecher, Monique Brown, and Kuor-Hsin Chang, to determine by unanimous agreement if the edits have been duly completed.*

Moved by Phil Beecher

Seconded by Ed Callaway

Upon neither discussion nor objection the motion carries by unanimous consent

**19:08** Closing report for TG4h by P Kinney (15-10-0225-01-004e)

*Move that the 802.15 WG approve the start of a WG Letter Ballot requesting approval to forward document d1P802-15-4-Corrigenda-1, edited in accordance with comment spreadsheet 15-09-790-02\_Corrigenda\_Worksheet, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

Moved by Pat Kinney

Seconded by Rick Alfvin

Discussion:

* Question on those letter ballot comments whose purpose would be to add errors in the 802.15.4 standards. Chair replied those comments would be out of order.
* Protest by individual stating that he was misinformed by TG4h chair. TG4h chair replied that while he hadn’t known about that rule the comments from the individual were enhancements to the standard.
* Comment from individual that he wouldn’t have withdrawn his comments if he had known this rule

*Call the question* by Art Astrin and Rick Alfvin

Vote to call the question was taken with results of 28/2/9, therefore the question is called.

Vote was taken with results of 22/2/10, motion carries

**19:23** Closing report for TG6 by A Astrin (15-10-0217-00-0006)

**19:29** Closing report for TG7 by Eun Tae Won (15-10216-0007)

**19:00** LECIM IG by Pat Kinney

Motion: *That 802.15 WG request approval from the 802 EC to form a study group for an amendment to 802.15.4 utilizing the 2.3 GHz M BAN being proposed by the FCC*.

* Moved by Rick Alfvin
* Seconded by John Lampe

Vote was 31/0/2, motion carries

Motion made to unsuspend the rules was ruled by chair that it couldn’t be considered until next session.

Request about Robert’s Rules on the suspension of rules was addressed by Chair stating that this matter will be investigated by next session.

Comment made that Robert’s Rules states that the suspension of the rules ends when its purpose has been completed.

**19:52** 802.11 Liaison report by Clint Chaplin (15-10-226-00-000)

**19:58** ZigBee liaison report by B Heile

* no changes since last report
* subGHz testing to being started
* collaboration with WiFi
	+ goal is to allow 802.11 to operate in a native environment under ZigBee SE profile

**20:01** ISA100.11a liaison report by P Kinney

**20:02** P2030 report by B Heile

* moving towards MAC/PHY agnostic

**20:03** SGIP working priority action plans

* M Klerer reported on Washington meeting
* B Kraemer reported on action items status

**20:07** Motion to adjourn was made by J Lampe and seconded by Ben Rolfe. Upon hearing no objection, the motion carries; the session is adjourned.

Annex A

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239 Attendees

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| --- | --- |
| **Last Name** | **First Name** |
| Emad | Afifi |
| Gahng-Seop | Ahn |
| Roberto | Aiello |
| Richard | Alfvin |
| Robert | Assimiti |
| Arthur | Astrin |
| Taehan | Bae |
| Michael | Bahr |
| Anuj | Batra |
| Philip | Beecher |
| Ashutosh | Bhatia |
| Ghulam | Bhatti |
| Gary | Birk |
| Mathew | Boytim |
| Peter | Bradley |
| Nancy | Bravin |
| David | Britz |
| Monique | Brown |
| Brian | Buchanan |
| John | Buffington |
| Kiran | Bynam |
| Brent | Cain |
| Edgar | Callaway |
| Chris | Calvert |
| Radhakrishna | Canchi |
| James | Carlo |
| Yvan | Castilloux |
| Russell | Chandler |
| Kuor-Hsin | Chang |
| Soo-Young | Chang |
| Clint | Chaplin |
| Hind | Chebbo |
| Yuqin | Chen |
| Chang-Soon | Choi |
| Earl | McCune |
| David | Cypher |
| Matthew | Dahl |
| David | Davenport |
| Robert | Davis |
| Mark | Dawkins |
| Hendricus | De Ruijter |
| Upkarjit | Dhaliwal |
| Susan | Dickey |
| Guido | Dolmans |
| Igor | Dotlic |
| Michael | Dow |
| Dietmar | Eggert |
| David | Evans |
| Charles | Farlow |
| John | Farserotu |
| Kory | Fifield |
| Will | San Filippo |
| Matthew | Fischer |
| Michael | Fischer |
| George | Flammer |
| James | Frame |
| Noriyasu | Fukatsu |
| Kiyoshi | Fukui |
| Jefrrey | Gallagher |
| Vincent | Gauthier |
| John | Geiger |
| James | Gilb |
| Gregory | Gillooly |
| Tim | Godfrey |
| Nada | Golmie |
| Daning | Gong |
| Paul | Gorday |
| Elad | Gottlib |
| Andrew | Gowans |
| Robert | Hall |
| Jungyu | Han |
| Shinsuke | Hara |
| Hiroshi | Harada |
| Timothy | Harrington |
| Robert | Heile |
| Rodney | Hemminger |
| Marco | Hernandez |
| Garth | Hillman |
| Jin-Meng | Ho |
| Wei | Hong |
| Iwao | Hosako |
| Srinath | Hosur |
| David | Howard |
| Heqing | Huang |
| Robert | Huck |
| Jae | Ho Hwang |
| Jung-Hwan | Hwang |
| Ichirou | Ida |
| Tetsushi | Ikegami |
| Donna | Imam |
| Akio | Iso |
| Adrian | Jennings |
| Wuncheol | Jeong |
| Lusheng | Ji |
| Steven | Jillings |
| Oh | Jongtaek |
| Carl | Kain |
| Tae | Young Kang |
| Tatsuya | Kato |
| Yasutaka | Kawamoto |
| Jeritt | Kent |
| Prithpal | Khakuria |
| Mohammad | Khojastepour |
| Byoung | Hak Kim |
| Dae | Ho Kim |
| Dae | Young Kim |
| Dukhyun | Kim |
| Hyun | Woo Kim |
| Jeffrey | King |
| Patrick | Kinney |
| Shoichi | Kitazawa |
| Young-Chai | Ko |
| Ryuji | Kohno |
| Fumihide | Kojima |
| Raymond | Krasinski |
| Stephen | Kuffner |
| Masahiro | Kuroda |
| Yuen | Kwok |
| Jae | Kyun Kwon |
| John | Lampe |
| Zhou | Lan |
| Ian | Lawee |
| Khanh | Tuan Le |
| Byoung | Nam |
| Myung | Lee |
| Sangjae | Lee |
| Senugyerl | Lee |
| Daniel | Lewis |
| Huan-Bang | Li |
| Liang | Li |
| Sang-Kyu | Lim |
| Jeremy | Link |
| Lu | Liru |
| Haitao | Liu |
| Michael | Lynch |
| Robert | Mason |
| Koichiro | Masuda |
| Tomokuni | Matsumura |
| Michael | Mcinnis |
| Charles | Millet |
| Dino | Miniutti |
| Siamak | Mirnezami |
| Rishi | Mohindra |
| Emmanuel | Monnerie |
| Rajendra | Moorti |
| Robert | Moskowitz |
| Hamilton | Moy |
| Peter | Murray |
| Tadao | Nagatsuma |
| Chiu | Ngo |
| Okundu | Omeni |
| Laurent | Ouvry |
| Satoshi | Oyama |
| Hyung-Il | Park |
| Jahng | Park |
| Taejoon | Park |
| Ranjeet | Patro |
| Albert | Petrick |
| Dalibor | Pokrajac |
| Daniel | Popa |
| Steve | Pope |
| Clinton | Powell |
| Richard | Powell |
| Huyu | Qu |
| Mohammad | Rahman |
| Sridhar | Rajagopal |
| Jayaram | Ramasastry |
| Marc | Reed |
| Ivan | Reede |
| Dale | Reiser |
| Edward | Richley |
| Emmanuel | Riou |
| Richard | Roberts |
| June | Chul Roh |
| Benjamin | Rolfe |
| John | Rouse |
| Seung-Moon | Ryu |
| Didier | Sagan |
| Kentaro | Sakamoto |
| H | Sanderford |
| Kamran | Sayrafian-Pour |
| Timothy | Schmidl |
| Michael | Schmidt |
| Jean | Schwoerer |
| Cristina | Seibert |
| Neal | Seidl |
| Jung | Seo |
| Kunal | Shah |
| Huairong | Shao |
| Steve | Shearer |
| Peretz | Shekalim |
| Shusaku | Shimada |
| Masashi | Shimizu |
| Chang | Sub Shin |
| Michael | Sim |
| Jonathan | Simon |
| Kendall | Smith |
| Jaeseung | Son |
| Ho-Jin | Song |
| Paul | Stadnik |
| Rene | Struik |
| Chin-Sean | Sum |
| Hui-Hsia | Sung |
| Gu | Sungi |
| Kenichi | Takizawa |
| Hirokazu | Tanaka |
| Larry | Taylor |
| James | Tomcik |
| Athmane | Touag |
| David | Tracey |
| Khanh | Tran |
| Jerry | Upton |
| Jana | Van Greunen |
| Hartman | Van Wick |
| Billy | Verso |
| Bhupender | Virk |
| Junyi | Wang |
| Qixin | Wang |
| Quan | Wang |
| Xiang | Wang |
| Andy | Ward |
| Nicholas | West |
| Mark | Wilbur |
| Ludwig | Winkel |
| Eun | Tae Won |
| Alan | Chi Wai Wong |
| Ye | Wu |
| Liuyang | Yang |
| Wen-Bin | Yang |
| Yang | Yang |
| Kazuyuki | Yasukawa |
| Kamya | Yazdandoost |
| Chul | Heum Yon |
| Isamu | Yoshii |
| Mu | Zhao |