**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 #70**

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

**January 16-22, 2010**

**Monday, 17 January 2011**

**8:03** 802.11, 802.15, 802.18, 802.19, and 802.22 Chairs called the joint meeting to order (15-10-972-01). IEEE 802.15 attendance is included as Annex A.

General announcements:

* M Kipness will be moving to a different position within IEEE, in appreciation for his service he was presented with a card and a gift. Tricia Guertin will be our new IEEE liaison.
* IEEE Awards were given to Art Astrin and R Heile
* Attendance will be collected via the IMAT

Straw Poll of new attendees: 2

**8:15** Financial report by John Barr, (11-11-073-00, 15-11-0026-00)

* November 7, 2010 - $358,834
	+ IEEE Account: $339,693.81
	+ Face-to-Face: $19,140
* January 16, 2011 - $359,150
	+ IEEE Account: $339,693.81 +316.08 = $340,009.89
	+ Face-to-Face: $19,140
* LA
	+ 388 registered
	+ Registration Income: $261,600
	+ Expected surplus: $13,378

**8:20** 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

**8:24** Wireless announcements: (15-11-035-00)

Wireless Network Updates by Rick Alfvin

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

**8:27** Review Interim meetings

* 8 - 13 May 2011, Hyatt Grand Champion, Palm Springs, California
* 18-23 Sep 2011, Okinawa Convention Center, Okinawa, JP
* 15– 20 Jan 2012, Hyatt Regency, Jacksonville, FL
* 13 – 18 May 2012, Hyatt Regency Atlanta, GA
* 9 – 14 Sep 2012, Hilton Waikoloa Village, Big Island, HI, USA

**8:25 Task Group Updates**

* 802.11 by B Kramer, Marvin (296 voters, 50 potential voters)

TGREVmb- revision - sponsor ballot

TGS: Mesh - sponsor ballot

TGU: internetworking

TGV: network management - sponsor ballot

TGZ: TDLS

TGAA: video transport

TGAC: VHT L6

TGAD VHT 60 GHz

TGAE-QoS Mgmt

TGAF-TV whitespace

TGah: S1G

TGaj: FILS

802.15 (212 voters, 43 nearly voters)

WNG: next generation

TG4e: MAC enhancements

TG4f: RFID applications

TG4g: SUN applications

TG4h: corrigenda – on hold

TG4i: revision – sponsor ballot

TG4j: MBAN

TG4k: LECIM

TG6 (BAN)

TG7 (VLC TG): sponsor ballot

SG-Personal Environment Svc

SG-4TV (TVWS)

IG-HIP

IG-SRU

802.18 Mike Lynch ()

* Review and discussion of ITU-R WP1A report “Smart Grid Power Management Systems” (18-11-002)
* EN 300-328 follow-up

802.19 Steve Shellhammer (15 voters)

* white space coexistence proposer mergers/downselection

802.22 Mody ()

* resolving comments from Sponsor Ballot
* working on recommended practice

Architecture document (802)

* one vote per WG outside of 802.1
* comment resolution is ongoing

**8:55** Joint meeting adjourned

**9:30** 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 (15-10-0932-01-0000)

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

Review and approve 802.15 WG minutes from the Dallas session (15-10-0865-00-0000)

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

**9:34** Wireless announcements (212 voters and 43 nearly voters)

**9:35** Architecture by J Gilb

* Working on comment resolution

**9:41** WG recessed

**Wednesday 19 Jan 2011**

**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
* 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 moving along with resolutions captured in 15-10-862-06
* goal of WG recirculation after this session

**TG4f** by M McInnis

* 76 technical comments have been resolved and captured in 15-10-965-06
* targeting completion by end of session

**TG4g** by P Beecher

* Working on comment resolutions
* Goal is to seek recirculation after this session

**TG4h** by P Kinney

* Corrigenda from TG4h were submitted to TG4i
* Essentially on hold pending approval of TG4i
* Adjourned for session

**TG4i** by J Gilb

* In Sponsor Ballot
* Goal is to seek RevCom approval in March

**TG4j (MBAN)** by Ray Krasinski

* FCC has made significant progress with MBAN regulation effort
* TG unanimously recommended Ray Krasinski as TG4j chair
* Motion: *to affirm Ray Krasinski as chair of TG4j* moved by Clint Chaplin and seconded by Art Astrin. Upon neither discussion nor objection the motion carries with unanimous consent

**TG4k (LECIM)** by David Howard

* Working on call for applications and time line
* David will remain as interim chair until next session
* Sub group will work on draft call for proposals

**TG6 (BAN)** by A Astrin

* Working on comment resolutions, 250 comments have been resolved
* Goal is to seek WG approval of recirculation after next session

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

* In Sponsor Ballot with 87% of comments have been resolved

**PSC IG** by Peter Murray

* Revising PAR and 5C
* Request WG approval of PAR and 5C at closing plenary

**WNG** by P Kinney

The WNG meeting will have a presentation on 802.15.4 IEs and PSC

**AoB** none

**10:55** Recessed until Thursday at 18:30

**Thursday, 20 January 2011**

**18:36** WG chair called the meeting to order (agenda 15-10-0972-02)

**18:38** TG4k closing report by David Howard (15-11-0121-01)

**18:44** 802.19 liaison report by Tuncer Baykas (19-11-016-00)

**18:48** TG4e Closing Report by P Kinney (15-11-0124-00)

Move *that 802.15 WG start a WG Recirculation Letter Ballot requesting approval to forward document d2P802-15-4e\_Draft\_Standard.pdf, edited in accordance with comment spreadsheet P802.15-10-0862-07-004e, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

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

**18:54** TG4f Closing Report by Mike McInnis (15-11-0116-00)

Motion: *That the WG approve the start of a recirculation ballot to forward the P802.15.4f-D02 draft standard document with the changes indicated in 15-10-0965-09 to Sponsor Ballot*.

* Moved by Mike McInnis and seconded by Adrian Jennings
* Discussion: new band plan for UWB – will next draft have this proposal? Yes
* Upon neither further discussion nor objection the motion carries with unanimous consent

**18:59** TG4g Closing Report by Phil Beecher (15-11-0118-00)

Move *that 802.15 WG start a WG Recirculation Letter Ballot requesting approval to forward document d2P802-15-4g\_Draft\_Standard.pdf, edited in accordance with comment spreadsheet P802.15-10-0852-16-004g, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

* Moved by Ed Callaway and seconded by James Gilb
* Upon neither discussion nor objection the motion carries with unanimous consent

**19:05** TG4i Closing Report by James Gilb (15-11-072-00)

**19:10** TG4j Closing Report by Ray Krasinski (15-11-0103-00)

**19:14** TG6 Closing Report by Art Astrin (15-11-0089-02)

**19:19** TG7 Closing Report by Eun Tae Won (15-11-0122-00)

Motion: *Request that the 802.15 WG seek EC approval to submit a PAR modification for 802.15.7 contained in DCN 15-11-0086-00-0007  to NesCom.*

Moved by Eun Tae Won; seconded by Clint Chaplin

Upon no discussion the vote was taken with the results of 41/0/0, the motion carries.

**19:26** SG-PSC by Peter Murray (15-11-096-01)

Motion: *request that the PAR and Five Criteria contained in documents* 15-10-0635-06-0psc-sg-psc-draft-par15-10-0636-05-0psc-sg-psc-draft-5c.doc *be approved by the 802.15 WG and that the EC be requested to forward the PAR to NesCom*

Moved by Peter Murray and seconded by Art Astrin. Upon no discussion the vote was taken with the results of 33/0/0.

**19:31** HIPIG closing report by Robert Moskowitz (15-11-0120-00)

**19:34** WNG closing report by Pat Kinney

**19:37** 802.11 Liaison report by Clint Chaplin (15-11-0123-00)

**19:53** ZigBee Alliance Report by Bob Heile

**19:54** New Business by Robert Heile

Clint Chaplin will be taking over the treasurer role from John Barr

Motion to *affirm Clint Chaplin as treasurer of 802.15 WG* by Rick Alfvin and seconded by Art Astrin. Upon neither discussion nor objection the motion carries with unanimous consent.

**19:59** Motion *to adjourn* was made by C Chaplin, seconded by E Callaway, upon no objection the motion carried, this session is adjourned.

**Annex A** Attendance = 178

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

|  |  |
| --- | --- |
| Ahn | Gahng-Seop  |
| Aiello | Roberto  |
| Alfvin | Richard  |
| Asano | Takamasa  |
| Astrin | Arthur  |
| Bae | Taehan  |
| Bahr | Michael  |
| Batra | Anuj  |
| Baykas | Tuncer  |
| Beecher | Philip  |
| Boyce | Christina  |
| Boytim | Mathew  |
| Bravin | Nancy  |
| Brown | Monique  |
| Buchanan | Brian  |
| Buffington | John  |
| Bynam | Kiran  |
| Cain | Brent  |
| Callaway | Edgar  |
| Canchi | Radhakrishna  |
| Cardozo | Ruben Salazar |
| Chang | Kuor-Hsin  |
| Chang | Soo-Young  |
| Chaplin | Clint  |
| Chebbo | Hind  |
| Choi | Sangsung  |
| Dahl | Matthew  |
| Davenport | David  |
| Dawkins | Mark  |
| De Ruijter | Hendricus  |
| Ding | Gang  |
| Domino | William  |
| Dotlic | Igor  |
| Eggert | Dietmar  |
| Evans | David  |
| Filin | Stanislav  |
| Filippo | Will San |
| Fischer | Michael  |
| Flammer | George  |
| Fujiwara | Ryosuke  |
| Fukatsu | Noriyasu  |
| Geiger | John  |
| Gilb | James  |
| Gillooly | Gregory  |
| Godfrey | Tim  |
| Gorday | Paul  |
| Green | Evan  |
| Hach | Rainer  |
| Hagino | Brian  |
| Hall | Robert  |
| Hara | Shinsuke  |
| Harada | Hiroshi  |
| Harada | Shigekazu  |
| Harrington | Timothy  |
| Heile | Robert F. |
| Hernandez | Marco  |
| Higashi | Ryoichi  |
| Ho | Jin-Meng  |
| Hong | Wei  |
| Hosur | Srinath  |
| Howard | David  |
| Huh | Jeff  |
| Hwang | Jung-Hwan  |
| Ikegami | Tetsushi  |
| Iso | Akio  |
| Jang | Il Soon |
| Jennings | Adrian  |
| Jeong | Wuncheol  |
| Jetcheva | Jorjeta  |
| Jillings | Steven  |
| Kain | Carl  |
| Kang | Sungweon  |
| Kent | Jeritt  |
| Khakuria | Prithpal  |
| Kim | Jaeyoung  |
| Kim | Youngsoo  |
| Kim | Jinkyeong  |
| Kim | Yongsun  |
| King | Jeffrey  |
| Kinney | Patrick  |
| Kipness | Michael  |
| Kohno | Ryuji  |
| Kojima | Fumihide  |
| Krasinski | Raymond  |
| Kuroda | Masahiro  |
| Lan | Zhou  |
| Le | Khanh Tuan |
| Lee | Byoung Nam |
| Lee | Myung  |
| Lee | Cheolhyo  |
| Lee | Seok-Jin  |
| Lewis | Daniel  |
| Li | Yong  |
| Li | Liang  |
| Li | Huan-Bang  |
| Lim | Sang-Kyu  |
| Lin | Chinglan  |
| Link | Jeremy  |
| Liru | Lu  |
| Lynch | Michael  |
| Mason | Robert  |
| Mcinnis | Michael  |
| Millet | Charles  |
| Miniutti | Dino  |
| Mirnezami | Siamak  |
| Monnerie | Emmanuel  |
| Morozumi | Masanori  |
| Moskowitz | Robert  |
| Moy | Hamilton  |
| Murray | Peter  |
| Myers | Theodore  |
| Nagao | Akifumi  |
| Nam | Hong Soon |
| Naniyat | Arun  |
| Obkircher | Thomas  |
| Ogawa | Hiroyo  |
| Omeni | Okundu  |
| Ouvry | Laurent  |
| Oyama | Satoshi  |
| Park | Seung-Hoon  |
| Park | Taejoon  |
| Patro | Ranjeet  |
| Ping | Xu Ping |
| Pokrajac | Dalibor  |
| Popa | Daniel  |
| Pope | Steve  |
| Powell | Clinton  |
| Powell | Richard  |
| Rahman | Mohammad  |
| Ramasastry | Jayaram  |
| Riou | Emmanuel  |
| Roberts | Richard  |
| Rodine | Craig  |
| Rolfe | Benjamin  |
| Sagan | Didier  |
| Sakamoto | Kentaro  |
| Sayrafian-Pour | Kamran  |
| Schmidl | Timothy  |
| Schmidt | Michael  |
| Schwoerer | Jean  |
| Seibert | Cristina  |
| Shearer | Steve  |
| Shellhammer | Stephen  |
| Shen | Jie  |
| Shibagaki | Nobuhiko  |
| Shimada | Shusaku  |
| Shin | Chang Sub |
| Shin | Cheolho  |
| Simon | Jonathan  |
| Son | Jaeseung  |
| Song | Chunyi  |
| Stadnik | Paul  |
| Struik | Rene  |
| Sungi | Gu  |
| Tabroff | Ronald  |
| Takizawa | Kenichi  |
| Tanaka | Hirokazu  |
| Taylor | Larry  |
| Van Greunen | Jana  |
| Van Wyk | Hartman  |
| Verso | Billy  |
| Virk | Bhupender  |
| Waheed | Khurram  |
| Walewski | Joachim  |
| Wang | Junyi  |
| Ward | Andy  |
| Weikel | Scott  |
| West | Nicholas  |
| Wilbur | Mark  |
| Winkel | Ludwig  |
| Won | Eun Tae |
| Woo | Pyo Chang |
| Yang | Yang  |
| Yang | Wen-Bin  |
| Yasukawa | Kazuyuki  |
| Yazdandoost | Kamya  |
| Yokoo | Kaoru  |
| Yoo | Sungjin  |