**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
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| Source | [] [] [address] | Voice: [ ] Fax: [ ] E-mail: [ ] |
| Re: | [Task Group 802.15.4e Interim Meeting in Waikoloa] | |
| Abstract | [Task Group 802.15.4e Minutes.] | |
| Purpose | [Official minutes of the Task Group Session | |
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**IEEE 802.15 Plenary Meeting – Session #67**

**July 2010**

**Task Group 4e Minutes**

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# Monday, 13 Sep 2010, 10:30 (AM2)

**10:31** Chair called meeting to order.

Chair presented opening report 15-10-0710-00-004e:

Chair displayed the IEEE-SA slides #1 through #4 of the IEEE patent policy.

Chair asked if anyone in the meeting was personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance? There were no responses.

**Agenda for Waikoloa**

Chair presented the agenda 15-10-0641-01. Chair noted that a joint meeting with TG4g had already been planned for Wednesday PM1. Discussion ensued to question the assigned time slots to the categories due to the availability of its leader; it was agreed that the agenda should be adopted as is and modified when more accurate information is known. Motion to approve the agenda was made by Ludwig Winkel and seconded by Ben Rolfe. Upon neither discussion nor objection the motion carries by unanimous consent.

**Approval of Previous Minutes**

Motion to approve the minutes from San Diego 15-10-0517 -01 was made by Myung Lee and seconded by Ben Rolfe. Upon neither discussion nor objection the motion carries by unanimous consent.

**Review of Comment Resolution**

Category leads presented the status of their group’s comment resolutions, almost all groups declared their comment resolution efforts complete with the text drafting remaining to be completed. DSME was uncertain as to the completion status of six comments and would contact Liang Li to verify status

**Core Issues Discussion**

Discussion ensued as to the changes deemed core to the MAC, the most significant of these changes were the frame formatting.

**11:45** Chair recessed until PM2

# Monday, 13 Sep 2010, 13:30 (PM1)

**13:45** Chair called meeting to order. Chair reminded the group that this slot was reserved for DSME. Myung Lee advised the group that the DSME group was not ready for this discussion and requested a delay until Wednesday AM1. There was no opposition to this delay so agenda is so amended.

Chair led a discussion on the TG4e coexistence assurance document with results captured in document 15-10-0737-00.

**15:00** Meeting recessed

# Monday, 13 Sep 2010, 16:00 (PM2)

**16:01** Chair called meeting to order.

TSCH: all A and AiP resolutions have been addressed in the draft. The change to merge unique TSCH commands into common commands results in the following changes:

* Advertisement command frame will be replaced with an enhanced beacon
* Advertisement confirm request primitive behavior will be merged with another primitive
* New primitive to allow unsolicited enhanced beacons will be added

Jonathan will add the above text when Ludwig completes his current edits (sometime Tuesday)

LE: 509r1 is the comment resolution spreadsheet with docs 346r1 and 380r3 as specific editing instructions.

4f: resolutions are contained in 403r1

FastA: resolutions are contained in 427r2 and 428r1

Metrics/PICS: resolutions are in 483 and 458.

**16:30** Meeting recessed

# Tuesday, 14 Sep 2010, 10:30 (AM2)

**10:34** Meeting called to order and reminded the group that this slot was reserved for 4g and EBR comments.

Wun-Cheol Jeong led the group in the 4g comment resolutions (15-10-0382-02). CIDs 12, 1474 were requests for a channel hopping mechanism. The enhanced beacon and beacon request resolves these comments. CID 1172 requested a default hopping sequence and Wun-Cheol referred the group to document 15-10-0561-00 which describes a mechanism for defining a default hopping sequence. This effort is not yet complete but is expected to be completed this week.

Ben Rolfe led the group in the EBR comment resolutions (15-10-0606-0). Jonathan Simon advised group that this effort includes the effort to eliminate advertising packets with enhanced beacons. He noted that a primitive will to be added that will allow sending non-solicited enhanced beacons.

Discussion ensued as to whether it is mandatory for a device capable of receiving EBR to respond, the consensus was yes. Discussion as to whether a device in a beacon enabled mode should respond to an EBR, with consensus that it should.

Resolutions to above discussions were captured in 606r1.

**12:15** meeting recessed until Thursday PM1

# Tuesday, 14 Sep 2010, 13:30 (PM1)

**13:40** Meeting called to order and Chair reminded the group that this slot was reserved for non-frame control ESOR and LL comments

B Rolfe led discussion on non-frame control ESOR comments (15-10-0555-03).

Michael Bahr led the group in a review LL comment resolutions with changes captured in 15-10-0390-06.

**15:30** Chair recessed until PM2

# Tuesday, 14 Sep 2010, 16:00 (PM2)

**16:04** Meeting called to order and reminded the group that this slot was reserved for frame control issues and comments.

Chair noted that the core documents for this discussion were 532r1, 603r3, and 707r0. Since 532r1 was presented and discussed in San Diego, Jonathan Simon presented 603r3 describing an alternate to 532r1’s multipurpose frame. B Rolfe presented 707r0 as corrections to 532r1 and editing changes to incorporate 603r3. Agreed upon changes to 707 are: 7.2.1.1.5 should be a table, 7.2.1.1.5a delete “is a 1 bit in length and” along with change enabled to present, change compression to suppression, ask J Gilb about wording of 7.2.1.1.5b, change 7.2.1.1.7 to a table.

Discussion ensued as to replacing 532r1’s multipurpose frame with the proposal described in 603r3. Wun-Cheol Jeong noted that the DSME group had concerns as to what proposal could best address its stated needs for three additional frame types.

Motion*: to adopt 15-10-0603-03 as amended to replace the multipurpose frame described in 15-10-532-01*, moved by Ben Rolfe and seconded by Jeff King. Upon neither discussion nor objection the motion carries with unanimous consent.

**18:00** Meeting recessed

**08:05**  Seong-Soon Joo, TG4e vice-chair, called the meeting to order.

Prof. Myung Lee led the effort to resolve the technical comments related to the DSME.

He reports that all the comments were resolved and the revised draft was produced for ready to merge

**08:15** Recessed until 8:40

**08:43** called the meeting to order

Ben Rolfe presented the doc 707r1 including the result of discussion on frame format

Pat Kinney moved the motion on adopting the doc 707r1 to amend to approve docs 532r1 and 603r3.

Seconded by Ben Rolfe

Discussed and no opposition on the motion

Motion carried anonymously

**09:15** The meeting recessed until Wednesday PM1

# Wednesday, 15 Sep 2010, 13:30 (PM1)

**13:45** Chairs called the meeting to order

Editor status included the following documents:

* DSME 15-08-0420-01
* Group Ack 15-10-453-01
* DSME contribution (no doc #)
* Frame Control 15-10-532-01
* LE-RIT 15-10-346-01, 15-10-380-03
* 4g 15-10-0382-02
* 4f 15-10-403-01, 15-10-211
* FastA 15-10-427-02, 15-10-428-01
* Metrics & PICS 15-10-483-00, 15-10-458
* ESOR 15-10-055-03
* EBR 15-10-606

**13:55** Meeting recessed by chair

# Wednesday, 15 Sep 2010, 16:00 (PM2)

**15:35** Meeting called to order and advised the group that this slot was to update the comment resolution database, 15-10-0321-07. The group reviewed comment resolutions from Metrics, LE, and ESOR; with changes captured in 15-10-0321-08.

**17:55** Meeting recessed by chair

# Thursday, 16 Sep 2010, 10:30 (AM2)

**10:42** Meeting called to order and advised the group that this slot was reserved to correct the DSME comment resolution**.** The corrections were captured in 15-10-321-09.

**12:20** meeting recessed until Thursday PM1

# Thursday, 16 Sep 2010, 13:30 (PM1)

**13:47** Meeting called to order and informed the group that this slot was to review and correct the consolidated comment database (15-10-0321)

Chair updated the consolidated comment database using 15-10-390-06.

Upon no further changes to the consolidated comment database Myung Lee moved and Ben Rolfe *seconded that the TG4e approve the technical comment resolutions in document 15-10-0321-10*. Upon neither discussion nor opposition the motion carries by unanimous consent.

Tim Godfrey moved, and Myung Lee seconded, that TG4e empowers the editors to complete revisions to the draft in accordance with the technical directions contained in 15-10-0321-10 and editorial changes as appropriate. Upon neither discussion nor opposition the motion carries with unanimous consent.

Myung Lee spoke to the group and asked for acknowledgement of the technical editing assistance from Professor Ang.

Motion: *Move that TG4e requests that the 802.15 WG approve the start of a WG Letter Ballot requesting approval to forward document P802-15-4e-D2\_Draft\_Amendment.pdf, edited in accordance with comment spreadsheet 15-10-0321-10-004e, to Sponsor Ballot pending the completion and inclusion of the edits in the draft.*

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

Tim Godfrey moved and Ludwig Winkel seconded, that TG4e recommends, and asks the 802.15 WG chair that the letter ballot for the revised 802.15.4e draft be the minimal 30-day duration to allow the editors additional time to properly prepare the draft. Upon neither discussion nor objection the motion carries by unanimous consent.

The group worked with the technical editor to repair the broken links in the revised draft.

**15:27** Session adjourned