**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Peer Aware Communications (PAC) Task Group minutes for Nov. 2013. |
| Date Submitted | 2nd Dec. 2013 |
| Source | [Seungkwon Cho][ETRI] | E-mail: [skcho@etri.re.kr] |
| Re: |  |
| Abstract | Task Group minutes of the IEEE 802.15.8 Plenary Meeting in Dallas, USA. |
| Purpose | To record the minutes of the IEEE 802.15.8 meeting at session #87. For approval at Session #88. |
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These are the minutes of IEEE 802.15.8 Task Group PAC meeting held at Hyatt Regency Dallas, November 10-15, 2013.

**Monday, Nov. 11th, 2013**

1. Room: REUNION B.
2. (13:45 h) The Chair called the meeting to order.
3. Chairman: Myung Lee
4. Attendees were asked to sign in the IMAT system for attendance.
5. The document number describing the agenda for this week’s meeting was DCN 15-13-0624-01-0008.
6. (13:48 h)The Chair presented the proposed agenda (DCN: 15-13-0624-01-0008) for the week, and mentioned the submitted documents to PAC for this session.
7. There was a question about the agenda. The question was about the concept of Platform document (PFD).
8. The Chair answered that PFD can accommodate various ideas contributed by PAC members. Moreover, he announced that Editor would mechanically merge the submitted text for PFD in each clause of PFD.
9. (14:01 h) The agenda was approved without objection of the attendees.
10. (14:02 h) There were no objections on approving the minutes (DCN: 15-13-0569-00-0008) on the previous TG8 meeting held at the Zhong Shan Hotel, Sept. 15-20, 2013.
11. (14:09 h) The Secretary pro tem, Seungkwon Cho, briefly reported a summary of teleconference took place in October 15, Tuesday 8:00PM US EDT.
12. (14:13 h) Marco Hernandez presented “Categorization of TG8 PHY proposals” (DCN: 15-13-0593-00-0008).
13. There were comments about Marco’s categorization and he revised the document according to the comments.
14. (14:26 h) Seong-Soon Joo presented “Service Identification and Management for Supporting Multiple Grades of Services at the MAC sublayer” (DCN: 15-13-0666-00-0008).
15. (14:51 h) The Editor, Byung-Jae Kwak, described current status of the draft PFD (DCN: 15-13-0328-01-0008).
16. From “4. General description” to “6. Physical layer”, every proposer spoke out the document number of their proposal if the proposer had text for the given clause and the Editor wrote the document number in each clause.
	* Secretary’s Note: Jinyoung Chun pointed out that the latest version of draft PFD was not 328r01 but 328r02. Accordingly, the Editor revised DCN: 15-13-0328-02-0008.
17. The meeting was recessed at 15:31 h.
18. The group reconvened at 16:03 h.
19. The Chair mentioned a procedure for PFD and Call for contribution.
	* PFD would address requirements.
	* To finalize PFD, PAC members might need to eliminate something or might need to harmonize, which might be a painful process.
	* Once PFD was done, then the Call for contribution would be issued.
20. (16:08 h) Byung-Jae Kwak presented “Text Proposal for IEEE 802.15 TG8 PFD: Discovery Types” (DCN: 15-13-0651-00-0008). He said that the presentation material included text for PFD describing the consensus on discovery type achieved in Nanjing meeting.
21. (16:11 h) Byung-Jae Kwak presented “Collision Detection Based Random Access Scheme for IEEE 802.15 TG8 PAC” (DCN: 15-13-0650-00-0008).
22. (16:41 h) Marco Hernandez presented “Complementary frame structure for TDD mode” (DCN: 15-13-0648-00-0008).
23. The meeting was recessed at 16:46 h.

**Tuesday, Nov. 12th, 2013**

1. Room: REUNION B.
2. The group reconvened at 08:05 h.
3. The Chair revisited the agenda (DCN: 15-13-0624-01-0008).
4. (08:10 h) Marco Hernandez presented “FDD and TDD discussion” (DCN: 15-13-0612-00-0008).
5. (08:27 h) Marco Hernandez presented “Addressing coexistence PAC devices with 802.11 devices” (DCN: 15-13-0649-00-0008).
6. (08:41 h) The Editor, Byung-Jae Kwak, presented a draft PFD (DCN: 15-13-0328-04-0008). The presented draft PFD was a temporary version for discussion. All the submitted text for PFD in July meeting were simply copied & pasted to the draft PFD by the Editor.
7. The Chair asked all the proposers those who have a proposed text for PFD to submit their text by 9:00 h on Thursday. It was because
	* The Editor did not merge proposals with no text proposal (.doc).
	* The Editor failed to copy text from .pdf proposals and thus he could just capture images from the .pdf proposals.
8. (09:01 h) “4. General description” and its subclauses were reviewed by attendees.
9. The meeting was recessed at 09:59 h.
10. The group reconvened at 10:35 h.
11. There was discussion on how to review and revise the draft PFD.
12. After discussion on general description part of “5. MAC layer”, a new subclause “5.0 Overview” was inserted with new text based on agreement among attendees.
13. “5.1. MPDU structure” was reviewed.
14. A couple of comments pointed out that the “Figure 5.1 Structure of link frame MPDU” was too much specific to one proposal. Even though there was long discussion on how to review and revise MAC and PHY part of the draft PFD, attendees failed to reach a consensus.
15. (11:15 h) Marco suggested having ad-hoc group meetings for MAC and PHY, respectively.
16. (11:18 h) All attendees were agreed to have Ad-hoc group meetings without any objection.
	* Both the rest of AM1 session and PM1 session were allocated to MAC ad-hoc group meeting.
	* PM2 session was allocated to PHY ad-hoc group meeting.
17. Marco Hernandez volunteered to lead the PHY ad-hoc group meeting.
18. Qing Li volunteered to lead the MAC ad-hoc group meeting.
19. The Chair announced that TG meeting would reconvene at AM1 session on Wednesday.
20. The Chair asked leaders of ad-hoc group meeting, Marco and Qing, to present the result of ad-hoc group meeting in tomorrow AM1 session.
21. The meeting was recessed at 11:26 h.

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| Secretary’s Note:1. MAC ad-hoc group meeting
	1. Meeting was led by Qing Li.
	2. MAC ad-hoc group meeting in AM1 session came to order at 11:54 h and was over 12:47 h (Room: REUNION B).
	3. After lunch, MAC ad-hoc group meeting resumed at 13:40 h in PM1 session and was over 15:18 h (Room: REUNION B).
2. PHY ad-hoc group meeting
	1. Meeting was led by Marco Hernandez.
	2. MAC ad-hoc group meeting in AM1 session came to order at 16:00 h and was over 17:09 h (Room: REUNION B).
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**Wednesday, Nov. 13th, 2013**

1. Room: COTTON BOWL
2. The group reconvened at 08:17 h.
3. Attendees were asked to sign in the IMAT system for attendance.
4. The Chair mentioned goal of the next meeting. The goal was to finalize PFD and to issue call for contribution after finalizing PFD.
5. The Chair also mentioned two teleconferences between this meeting and the next meeting.
6. (08:21 h) Qing Li presented “Discussion of the Application Management for PAC to Support Multiple Applications” (DCN: 15-13-0701-00-0008).
7. (08:52 h) Marco, as a leader of PHY ad-hoc group meeting, reported the discussion result of PHY ad-hoc group meeting. Every subclause of draft PFD (15-13-0328-06-0008) revised during PHY ad-hoc group meeting was presented by him.
	* Secretary’s Note: Even though DCN used for his presentation was 328r06, the DCN was incorrect. Readers are recommended to refer to 328r07.
8. (09:00 h) The Chair announced that discussion result of ad-hoc group meeting was a consensus reached by not Task Group (TG) but ad-hoc group. Thus, the Chair asked attendees of TG to make a decision on whether TG adopt the discussion result of ad-hoc group meeting as formal agreement of PAC TG.
9. Every single subclause of PHY part of draft PFD revised by PHY ad-hoc group was reviewed by attendees in order to make TG agreement.
10. Regarding “6.1. Block Diagram”, the Chair asked attendees whether there were controversial issues or not on the block diagram. There were no questions and comments and thus TG made agreement on “6.1. Block Diagram”.
11. At the end of Marco’s each presentation of individual subclauses of PHY part of draft PFD, the Chair asked attendees whether attendees had comments regarding the presented subclause. The Chair announced that no comments would be regarded as unanimous consent.
12. (09:16 h) Marco’s report was over.
13. (09:18 h) The Chair announced that those who had certain assignment regarding text for draft PFD should summit the text by 09:00 h on Thursday.
14. (09:19 h) Qing Li, as a leader of MAC ad-hoc group meeting, reported the discussion result of MAC ad-hoc group meeting. She presented revised part of draft PFD (15-13-0328-06-0008), from “5. MAC layer” to “5.4. Communications”, during MAC ad-hoc group meeting.
	* Secretary’s Note: Even though DCN used for her presentation was 328r06, the DCN was incorrect. Readers are recommended to refer to 328r07.
15. Every single subclause of MAC part of draft PFD revised by MAC ad-hoc group was presented by Qing Li.
16. (09:36 h) From “5.1. Synchronization” to “5.4. Communications”, like the same way as was done in the PHY ad-hoc meeting report, the Chair asked attendees whether there were controversial issues in each subclause. TG made agreement on those subclauses.
17. (09:40 h) Qing’s report was over.
18. The Chair announced his absence from tomorrow meeting and plan of work to be done tomorrow.
19. The Chair asked all the proposers those who have a text for PFD to submit their text by 9:00 am tomorrow.
20. Two teleconferences before the next meeting were scheduled.
	* First Teleconference: December 5th, Thursday 6:00PM US EST (8 AM Friday KOREA/JAPAN, 12:00 PM Thursday Europe )
	* Second Teleconference: January 8th, 2014 Wednesday 8:00 AM US EST (10 PM Wednesday KOREA/JAPAN, 2:00 PM Wednesday Europe)
21. (10:06 h) The Chair announced that one of members with ETRI had proposed a demonstration of a testbed with spatial filtering in January meeting.
22. By request from the Chair, Byung-Jae Kwak gave a detailed account of the proposed demonstration.
23. Byung-Jae Kwak said that the demonstration would include some automatical peering in a sense that a user could quickly establish connection just by touching the object appearing on the screen of device.
24. (10:09 h) Even though the Chair asked attendees to comment on the proposed demonstration, no comments were there.
25. (10:10 h) The Editor, Byung-Jae Kwak, asked the leaders of ad-hoc group to send their discussion result to the Editor.
26. The meeting was recessed at 10:11 h.

**Thursday, Nov. 14th, 2013**

1. Room: REUNION B.
2. The group reconvened at 13:34 h.
3. The Vice Chair, Huan-Bang Li, led the meeting on behalf of the Chair.
4. Attendees were asked to sign in the IMAT system for attendance.
5. (13:35 h) The Vice Chair revisited the agenda for agenda for this week’s meeting (DCN: 15-13-0624-01-0008).
6. (13:37 h) Igor Dotlic requested presentation time for a newly merged proposal (DCN: 15-13-0716-00-0008).
7. The Vice Chair allocated presentation time for Igor and updated the agenda (DCN: 15-13-0624-02-0008).
8. (13:39 h) The Editor, Byung-Jae Kwak, described current status of the draft PFD (DCN: 15-13-0328-07-0008) which included all the text submitted by 9:00 h this morning.
9. The Editor put an emphasis on the Editor’s note written in page 5, which should be followed by all the text proposers.
10. (14:18 h) Igor Dotlic presented “Merged DecaWave and NICT IR-UWB PHY proposal to IEEE 802.15.8” (DCN: 15-13-0716-00-0008).
11. (14:23 h) Marco Hernandez presented all the blue text enclosed by <707r0> tag in DCN: 15-13-0328-07-0008 which was not result of PHY ad-hoc group but the proposed text in DCN: 15-13-0707-00-0008.
12. (14:31 h) Qing Li presented all the blue text enclosed by <380r2> tag in DCN: 15-13-0328-07-0008 which was not result of PHY ad-hoc group but the proposed text in DCN: 15-13-0380-02-0008.
13. There were no objections on removing <380r2> of the first paragraph in “5.0. Overview” (“This section defines MAC mechansim ~ with fully distributed coordination.”) and accepting that paragraph as a task group consensus.
14. There were no objections on leaving two definitions in “5.1. Synchronization”.
15. (14:05 h) The Editor, Byung-Jae Kwak, gave a detail account of the latest draft PFD which would be a final draft PFD generated in this meeting.
16. The latest draft PFD was edited by the Editor. The editing mainly included deleting red paragraph stuck out in the draft PFD.
17. After editing the whole document, the draft PFD was finally saved with DCN: 15-13-0328-08-0008.
18. (15:22 h) The Vice Chair revisited the agenda for agenda for this week’s meeting (DCN: 15-13-0624-02-0008).
19. The meeting was recessed at 15:24 h.
20. The group reconvened at 16:03 h.
21. The Vice Chair, Suhwook Kim, led the meeting on behalf of the Chair.
22. Attendees were asked to sign in the IMAT system for attendance.
23. The Vice Chair presented a draft TG closing report.
	* Secretary’s Note: The DCN shown in the meeting was 558r0 but the number was incorrect and the Vice Chair said that he would revise the number when he upload the closing report. The uploaded DCN of TG closing report was DCN: 15-13-0725-00-0008.
24. There was discussion on level of details of “Plan for January Meeting” slide.
25. The meeting adjourned at 16:11 h.

The next meeting will be held during January 19-24, 2014 – Los Angeles, California USA.