**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **TG3d** | |
| Date Submitted | 16 January 2015 | |
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| Re: |  | |
| Abstract | Meeting notes on the 802.15 TG3d January 2015 Interim Meeting | |
| Purpose | Meeting Minutes | |
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**Minutes of the January 2015 TG3d**

The TG3d 100G meeting took place on January 12-15 2015 in the time slots Monday PM1+PM2, Tuesday PM2 and Wednesday PM2.

<<TG3d session (1, 2) Mon PM1,PM2>>

Meeting was called to order at 13:30 on January 12.

This week’s session were chaired by Iwao Hosako, vice-chair of the TG3d because the chair of this TG, Thomas Kürner could not attend.

The patents statement was mentioned and no patent contributions were discussed.

The November 2014 meeting minutes was moved by Ken Hiraga and second by Rick Roberts and approved with no discussion.

The January agenda was moved by Ken Hiraga and seconded by Rick Roberts and approved with no objection.

Call for contributions/Changes of the agenda or for any other business: Rick would give a presentation on applications of data centers.

Listening Contributions:

* **Contribution #1 :**Ken Hiraga, NTT (Japan), “Applications Requirement Document (ARD)” (Document 15-14-0304-08-003d)  
  Explained the improved section of Touch less GATE application example. The presenter mentioned that the link establishment time of 2 msec is sufficiently long as an answer to the question.  
  Incorporating this in the baseline ARD (r07) was Approved with no objection.
* **Contribution #2 :**Mounir Achir, Canon (France), “applications-requirement-document-ard-intra-device-communication” （Document 15-15-0030-00-003d）  
  Description of the application requirement of Intra-device communications.  
  The presenter told that this version was not final proposal and he would prepare the final proposal to the ARD in the March meeting. Some attendees pointed out that this meant that finalizing the ARD would be postponed. ( In the timeline of the study group, ARD is to be completed within January meeting.) Hence the task group conducted the strawpoll below.  
  “Do you support adopting the change proposed in document 15-15-0030r00 into current baseline ARD (15-14-0304r08) and make ARD r09?”, The result was Yes:10,No:8. So the group decided to include this contribution into ARD (r08).
* **Contribution #3 :**Sihn Gyung-Chul, ETRI (Korea), “New Application for Close Proximity P2P Applications” (Document 15-15-0018-01-003d)  
  Presented a new use case, wireless storage. This presentation is almost the same as Document 15-15-0015-00-003e which was presented in SG3e Monday AM2 session.
  + **Contribution #4 :**Sihn Gyung-Chul, ETRI (Korea), Proposed Text Change for TG3d ARD”（Document 15-15-0019-01-003d）  
    Proposed the inclusion of the wireless storage presented above, in section 3.1.1 and the new section 4.6.2 of ARD.  
      
    Andrew Estrada pointed out that Wireless power transmission (WPT) seems to be out of scope for this task group and the presenter agreed with that.  
    The presenter changed some description in this document after the attendee’s comment.

This proposal was decided to be included into the current baseline ARD.

* **Contribution #5 :**Hiroyo Ogawa, NICT (Japan) “Proposed frequency arrangements to section 10 of TG3d TRD” (Document 15-15-0038-00-003d)  
  This is for the TRD. Propose frequency arrangement in the 275 GHz band.  
  Some comments were received from attendees, so he mentioned that he would revise the proposal and make text for TRD in future meetings.

Vice chair ordered secretary to combine two contributions on ARD into current baseline ARD (r08). r09 will be prepared before Tuesday sessions will start.

<<TG3d session (3) Tue PM2>>

Meeting was called to order at 16:00 on January 13

Change in the agenda to the agenda r03 was approved without discussion and objection. (Moved by Hiraga and seconded by Estrada)

* **Contribution #6:**Hiroyo Ogawa, NICT (Japan) “Operational frequency band for TG3d devices,” (Document 15-15-0052-01-003d)  
  Provides the candidate frequency bands for TG3d devices operating at THz frequency band.

In including this contribution in TRD, there was no comment and discussion. The presenter agreed to prepare the text for TRD until or the Berlin meeting.

* **Contribution #7:**Rick Roberts, Intel Labs (US) “Data Center Text for ARD,” (Document 15-15-0049-00-003d)

In including this contribution in TRD, there was no objection in including into the current version (r09) of ARD.

Work on ARD:

Reviewed and improved some sentences the revised portions on ARD r09 uploaded in Monday evening.

“Data Center Text for ARD,” (Document 15-15-0049-00-003d) was reviewed as well.

Attendees will recheck the uploaded version of ARD r10 and discuss that in Wednesday meeting.

Meeting was recessed at 17:15 on January 13.

<<TG3d session (4) Wed PM1>>

The meeting was called to order at 16:03 on January 14

* + Work on ARD
  + SG Reviewed the whole ARD r10, which was uploaded in Tuesday, on the screen.
  + There are two figure 5 in section 4, the figure number will be modified by Ken Hiraga.
  + Chair notified the section 4 which regards to the SG3e.
  + After confirmation of r10, so far, members of ETRI were satisfied with the descriptions regarding their contributions in the section 4.
  + As for section 6, Hiroyo Ogawa will modify further.
  + Work on CMD
  + There was no contribution and discussion on the CMD. Hence the current version was that of the Athens meeting.

Work on TRD:

* + Some values in TBD were set to be as described in ARD.
  + Section 16, link budget calculation in 60 GHz, contained some strange descriptions (modulation is not stated). Ken Hiraga would check and ask who prepared this section (Toshiba) to clarify that.
  + Presentation this meeting by Hiroyo Ogawa would be included in SG future sessions.
  + Section 21, security issue, should be considered in the SG.

The meeting was recessed at 17:12 on January 14.

<<TG3d session (5) Thu PM1>>

The meeting was called to order at 16:04 on January 15.

Work on the TG documents ARD, TRD, CMD:

John Notor told that he would have some modifications on CMD.

There was no discussion on ARD and TRD.

The status of ARD was as follows:

* Section 4 “Close Proximity P2P“: completed in this week
* Section 5 “Intra-device communication”
* Section 6 “Fronthauling”
* Section 7 “Backhauling”
* Section 8 “Data Center”

**Tasks completed during the meeting:**

* Work on ARD
  + Section 4 is completed, while sections 5 ~ 8 need some revision.
  + Saved as r10 on mentor.

**Action for Items for the March Meeting:**

* Approve the ARD as the final.
  + Complete the work on the following sections in ARD in conference calls in Feb.
    - Section 5 “Intra-device communication”
    - Section 6 “Fronthauling”
    - Section 7 “Backhauling”
    - Section 8 “Data Center”
    - # Work in section 4 “Close Proximity P2P“ which regards to SG3e  
       was completed in this week.
* Revise TRD and CMD.
* Conference call schedule
* 5 February 2015, 6:30-7:30 am UTC
* 19 February 2015, 6:30-7:30 am UTC

The meeting was adjourned at 16:19 on January 15.