**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **TG4s March 2015 Meeting Minutes** | |
| Date Submitted | [31 March, 2015] | |
| Source | [] [] [Kyoto Japan] | Voice: [+81-774-95-1565 ] Fax: [ ] E-mail: [kitazawa@atr.jp] |
| Re: |  | |
| Abstract | [IEEE 802.15 TG4s Minutes.] | |
| Purpose | [Report progress to WG.] | |
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**EEE 802.15 Interim Meeting – Session #95**

**Estrel Congress & Messe Center**

**BERLIN, GERMANY**

**March 8 - 13, 2015**

**Chair: Shoichi Kitazawa**

**Monday PM2 Session –12 January, 2015**

The meeting was called to order at 16:05 by the chair.

The chair presented TG4s March 2015 Agenda (15-14-725r0).

There is no discussion nor objection the agenda is approved by unanimous consent.

The chair presented TG4s January 2015 Meeting Minutes (15-15-100r0) and G4s Teleconference Minutes for February 2015 (15-15-122r1). There were no comments. The minutes approved by unanimous consent.

In the next, the chair presented TG4s Opening Information for March 2015 (15-15-186r0).

* The chair pointed out patent policy and made a call for notification of essential patents. There were no responses in the meeting.
* The chair presented schedule for the week, agenda items for the week and timeline.

**Presentation**

Hidetoshi Yokota was presented “Use case proposal for Technical Guidance Document” (15-15-0177-00-004s) and discussed. This is a proposal for introducing a new use case about AMI (Advanced Metering Infrastructure) and related functional requirements.

Shoichi Kitazawa was presented “Additional TG4s use case and consideration of SRM information” (15-15-0199-00-004s) and discussed. This is a proposal about a new use case for cluster tree and additional IEs for discussion.

**Review Technical Guidance Document (TGD)**

The group reviewed latest TGD (15-14-0555r3).

* It was discussed about adding the use cases propose in this meeting to Section 4.4.x and there was no objection.
* It was discussed about adding the functional requirements in section 5. There was no objection and it was suggested that they could go to Section 5.1.
* In Table 1, why does “noise” in detailed items have “?” – 802.11k has a similar metric, so more investigation is needed.
* What is “fluctuation” in the table? – The author of this contribution will answer it on Thursday.
* In overall, each metric should be more precisely explained.

The chair recessed at 17:25 until Thursday AM1 session.

**Thursday AM1 Session –12 March, 2015**

The meeting was called to order at 8:10 by the chair. The group worked on developing of Technical Guidance Document.

**Presentation**

Mitsuru Iwaoka presented “Metrics used in some Wireless Sensor Network standards” (15-15-72r1). T This proposal is about metrics used in some wireless sensor network standards.

Questions:

Different metrics that are defined for the same purpose are all intended to be included in the table? – Support of these parameters are dependent on the device.

How does the GW calculate or accumulate these metrics? – Calculations are done per device not per the network.

The group review of the other presentations that were presented on Monday.

**Refinement of TGD**

The chair explained that the focus of this meeting is on addition of more IEs or PIBs to existing ones and introduced the latest revised TGD (15-14-0555-03-004s).

There was a comment that the measurement period can be provided by higher layer. (e.g., health report concentrator object).

With regard to the metrics for the signal strength, RSSI should be mandatory, the others (e.g., RSQI and LQI) can be optional.

There was a comment that commands to commence and stop may be needed.

The chair recessed at 10:05 until AM2 session.

**Thursday AM2 Session –12 March, 2015**

The meeting was called to order at 10:30 by the chair. The group continues to discuss TGD.

Shoichi Kitazawa presented “Spectrum Resource Measurement and Management requirement table” (15-15-089) and the group revised the table.

Measurement timing (periodical/request-based/continuous) and reporting timing (periodical/request/conditional) were newly created.

There was a comment that 802.11k has similar specs and it was pointed out that this document needs to be reviewed and could be used as appropriate.

It was agreed to define “macSRMcapable” primitive instead of “macSRMenabled”.

**Plan for May meeting and Teleconferences**

The group confirmed that the TG4s has 3 slots in the May meeting and will have two teleconferences before the May meeting for updating the TGD and discussing Draft document.

Proposed dates of the teleconference are following.

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|  | **Date (ET)** | **Date (JST)** |
| 1 | April 21,21:00 | April 22, 10:00 |
| 2 | May 6, 21:00 | May 7, 10:00 |

More detail about teleconference logistics will be notified by the reflector.

The chair moved the group to adjourn the meeting. There were no objections. The meeting adjourned at 12:00.

**Contributions**

* + TG4s March 2015 Agenda (15-15-133)
  + TG4s Opening Information for March 2015 (15-15-186)
  + TG4s Teleconference Minutes for February 2015 (15-15-122r1)
  + TG4s Technical Guidance Document (15-14-555r3)
  + Use case proposal for Technical Guidance Document (15-15-177)
  + Additional TG4s use case and consideration of SRM information (15-15-199)
  + Metrics used in some Wireless Sensor Network standards (15-15-72r1)
  + Spectrum Resource Measurement and Management requirement table (15-15-089)