**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | 802.15 TG10 (L2R) Minutes for July 2014 Mtg. | |
| Date Submitted | [17 July, 2014] | |
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| Re: | [TG10 (L2R) meeting minutes.] | |
| Abstract | TG10 (L2R) minutes from the San Diego Mtg. | |
| Purpose | [TG10 (L2R) meeting minutes.] | |
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**Minutes for IEEE 802.15 TG10 (L2R)**

**San Diego Meeting**

**13-17 July 2014**

**Chair - Clint Powell**

**Acting Secretaries -  
(Verotiana Rabarijaona, Tim Godfrey, Clint Powell)**

**Monday AM1 (7/14)**

Chair called the meeting to order at 8:05 AM.

Chair made a call for secretary. Verotiana Rabarijaona volunteered.

**Review of agenda (doc# 15-14-0358-03)**

The agenda was reviewed by the chair. The approval of the agenda is deferred to Tues. AM1, after the official opening of the plenary session on Mon. AM2.

**Approval of Prior Mtg. Minutes**

The approval of the May minutes is deferred to Tues. AM1, after the official opening of the plenary session on Mon. AM2.

**Patent Policy and call for Essential Patents**

Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses.

**Setting Agenda for Presentation of Proposals**

Four proposals were received. The group set the following order for hearing the proposals:

* Tues. AM1 - 1: Verotiana Rabarijaona et al., doc. # 15-14-408-00
* Tues. AM1 - 2: Noriyuki Sato et al., doc. # 15-14-393-00
* Wed. PM1 - 1: Seong-Soon Joo et al., doc. # 15-14-401-00
* Wed. PM1 - 2: Jaehwan Kim et al., doc. # 15-14-409-00

**Preparing for 802.1/802.15 Joint Session**

The Chair prepared document # 15-14-0417-00 summarizing the preliminary proposals heard at the Kona Interim in May, to be presented at the Joint meeting with 802.1 to be held on Tues. PM3. Chair asked that the preliminary proposal proposers review the document and send comments/feedback/corrections to the Chair by noon on Tues., July 14th.

The Task Group went into recess (@9:20 PM) until the Tues. AM1 session.

**Tuesday AM1 (7/15)**

Chair called the meeting to order at 8:10 AM.

**Patent Policy and call for Essential Patents**

Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses.

**Motion to approve the agenda**: **(doc# 15-14-0358-04)**

Moved: Fumihide Kojima, Second: Noriyuki Sato

There was no discussion and no objections therefore the motion passed and the agenda was approved unanimously.

**Motion to approve the May meeting minutes: (doc# 15-14-0321-00)**

Moved: Kiyoshi Fukui, Second: Verotiana Rabarijaona  
There was no discussion and no objections therefore the motion passed and the minutes were approved unanimously.

**Presentation of Final Proposals**

Following the approved agenda order in doc. # 15-14-0358-04, 2 the following 2 final proposals were heard.

Final Proposal #1 and Q&A - doc. # 15-14-0408-00, entitled Hierarchical Mesh Tree Routing, by Verotiana et al., was presented. Q&A ensued after the presentation.

Final Proposal #2 and Q&A - doc. # 15-14-0393-01, entitled L2R Final Proposal, by Sato, et al., was presented. Q&A ensued after the presentation. A revision, 15-14-0393-02, cleaning up the unintended data at the end of the doc, will be posted per request of the chair.

The Task Group went into recess (@10:00 AM) until the Tues. PM3 session

**Tuesday PM3 (7/15) – 802.1/802/15 Joint Session**

Chair called the meeting to order at 6:35 PM.

**Patent Policy and call for Essential Patents**

Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses.

**Presentation of Summary of Preliminary Proposals Given at May 2013 TG10 Sessions**

An update on the current status was first given. Doc. # 15-14-0417-01 was then presented. A few questions on addresses used where then asked and answered.

Portions of the latest revision of the TGD, doc. # 15-13-0753-19 were shown.

The next TG10 update to 802.1 will occur at the Nov. 2014 Plenary.

A timeline for the Terahertz work was then presented by Thomas. It was agreed that the PAR to be submitted in 802.1, to start the complimentary work, should occur before/as the 15.3 draft is going to the EC for approval.

The Task Group went into recess (@7:15 PM) until the Wed. PM1 session

**Wednesday PM1 (7/16)**

Chair called the meeting to order at 1:35 PM.

**Patent Policy and call for Essential Patents**

Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses.

**Presentation of Final Proposals**

Following the approved agenda order in doc. # 15-14-0358-04, 2 the following 2 final proposals were heard.

Final Proposal #3 and Q&A - doc. # 15-14-0401-01, entitled Layer 2 Routing Final Proposal to Call for Contributions and doc. # 15-14-0402-00, entitled Evaluation of Layer 2 Routing Proposal, by Seong-Soon Joo, et al., was presented. Q&A ensued after the presentation.

Final Proposal #4 and Q&A - doc. # 15-14-0409-00, entitled Proposal of the Hybrid L2 Routing for IEEE 802.15.10, by Jaehwan Kim, et al., was presented. Q&A ensued after the presentation.

The Task Group went into recess (@3:30 PM) until the Thurs. PM2 session

**Thursday PM2 (7/17)**

Chair called the meeting to order at 4:05 PM.

Chair made a call for secretary. Tim volunteered.

**Patent Policy and call for Essential Patents**

Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses.

**Joint Q/A on the final proposals**

Chair asked if there were any questions regarding the final proposals heard on Tuesday and Wednesday. The following questions were raised and discussed:

* Questions regarding details on the MACs and the metrics that will be provided in the final results in Athens.
* A question about exchange of data regarding routes between PAN Coordinator and routes? Using the Payload Information Element.
* Is the cluster matrix held at each cluster root router? Yes, everything is not at the PAN coordinator.
* How is retransmission handled? What is the mechanism? All proposers answered the question.

**Discuss Adding Linear Scenario to Required Analysis**

Chair asked if there was any interest in adding a linear scenario to the TGD as part of the required analysis for the proposals to present results on. What about "mostly linear" it would be wide aspect rectangular? Is that different enough to be useful? The group had no interest in adding a linear topology scenario and nobody would be offended if we didn't have one. Linear routes will remain optional and the scenario matrix in the TGD will remain as is.

Chair asked if there are there any other scenarios that should be considered. More realistic network configuration was raised as one (i.e. varying distances between nodes and neighbors, varying interference levels, etc.).

Performance metrics can include things like Hop counts, initialization time, average and worst case time for packet to reach destination, percentage of nodes with congestion. The plan is to discuss and determine these metrics on the next call.

**TG10 Timeline review**

Chair presented the project schedule, doc. # 15-13-0645-04. The Chair will modify the timeline and capture the 1 mtg. slip, due to proposals and data being presented at both the July and Sept. Mtgs.

**TG10 Next Steps**

Chair encouraged proposers should discuss with each other on what the common features are.

TG participants will:

* Develop list of metrics for proposers to include along with remaining results in Sept.
* Compare and contrast proposals for discussion points.
* Consider how do we proceed to a baseline? Down select voting? Merging? Other?

TG10 will meet jointly with 802.1 at the Nov. Plenary and present a status update and summary of final proposals. There are no issues currently being raised by 802.1. TG10 is keeping to the objective of not routing outside the PAN or into 48 bit address domains.

**Reminder of Standing TG10 Conference Call**

On Thurs. @ 7AM (Pacific)

Next call is on Thurs., July 24th @ 7AM (Pacific).

**Motion to adjourn the meeting**:

Moved: Verotiana Rabarijaona, Second: Noriyuki Sato.

There was no discussion and no objections, therefore the motion passed and the meeting was adjourned at 5:10 PM.