**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 November 2015 Mtg. | |
| Date Submitted | [12 November, 2015] | |
| Source | [Charlie Perkins] [Futurewei] | Voice: [+1-408-330-4586] Fax: [+1-408-330-5088] E-mail: [charliep@computer.org] |
| Re: | [TG10 (L2R) meeting minutes.] | |
| Abstract | TG10 (L2R) minutes from the November Dallas Mtg. | |
| Purpose | [TG10 (L2R) meeting minutes.] | |
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**Minutes for IEEE 802.15 TG10 (L2R)**

**November Meeting**

**8-13 November, 2015**

**Chair - Clint Powell**

**Technical Editor - Verotiana Rabarijaona**

**Secretary - Charlie Perkins**

**Monday AM1 (November 9)**

Chair called the (unofficial) meeting to order at 8:15am in room Sanger A.

**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.

**Opening Report (doc# 15-15-0858-00)**

Tuesday AM1 session moved to Wednesday PM1.

Meeting Objectives

* Recap Sept. 802.15 Interim and Current Status
* Agenda and Mins. Approval
* Resolve Comments from LB 110
  + Comment Database - doc. # 15-15-0318-xx (currently r30)
* Approve Editorial Resolutions
* Re-Establish TG10 BRC
* Generate Update for 802.1
* Review & Update Timeline

Verotiana’s plane was delayed; she missed her connection. She will be here for Monday PM2.

**LB 110 Comment Resolution Status**

LB 110 Technical Comments - 223

152 Resolved

28 TBR (proposed resolutions - To Be Reviewed by commenter)

43 Open

3 Approved RDN (resolution agreed to - Resolution Details Needed)

38 WiP (resolution needs work - Work in Progress)

2 to go

Rogue Technical Comments - 43

26 Resolved

1 TBR

16 Open

4 Approved DRN

4 WiP

8 to go

**TG10 Timeline**

* Letter Ballot March/April 2015
* 1st Letter Ballot Recirc. Aug./Sept 2015
* 2nd Letter Ballot Recirc. Nov./Dec. 2015
* 3rd Letter Ballot Recirc. Jan./Feb. 2016
* WG Sponsor Ballot Approval March 2016
* EC Sponsor Ballot Approval March 2016
* Sponsor Ballot March 2016
* 1st Sponsor Ballot Recirc. May/June 2016
* 2nd Sponsor Ballot Recirc. July/Aug. 2016
* 3rd Sponsor Ballot Recirc.**\*** Sept./Aug. 2016
* EC Approval Nov. 2016
* RevCom Approval Dec. 2016

**\*** May not be needed.

Discussion about which BRC dates are needed. Should be able to get the draft out in December.

**TG10 Conference Calls Reminder**

* TG10 Standing Conference Call Info
  + Day: Mon.
  + Next Call: 23rd, Nov.
  + Time: 6PM-8PM Mon. (Arizona)  
     10AM-Noon Tues. (Japan-JST, Korea)
  + Conf. #: To Be Sent to TG10 Reflector

**Looking Forward**

After Atlanta Mtg.

* + 2nd Letter Ballot Recirculation Comment Resolution
  + 3rd Letter Ballot Recirculation
  + 3rd Letter Ballot Recirculation Comment Resolution

Next Update to 802.1

* + March 2016

For the January Atlanta interim meeting, Clint will have to leave before the end of Thursday. Charlie or Verotiana will deliver the closing report.

**Plan for week** (modified to account for Verotiana’s arrival)

|  |  |
| --- | --- |
| **Topic** | **Session** |
| **MCO - Jaehwan** | **Mon. PM1 or Wed. PM1** |
| **P2P - Jaehwan** | **Mon. PM1/PM2 or Thurs. PM2 (Needs Tero for one comment if he wants to be there)** |
| **Topology construction / Service selection - Sato** | **Mon. PM1/PM2 or Thurs. PM2 (Needs Tero)** |
| **Address assignment 1095 - Rabarijaona (doc 803)** | **Mon. PM1/PM2 or Thurs. PM2 (Needs Tero)** |
| **NLM IE - Sato** | **Wed. PM1** |
| **IEs (including the long IE issue) - Rabarijaona (doc 792 r4)** | **Mon. PM1/PM2 (Needs Tero and Pat for the long IE discussion)** |
| **Some comments with RDN** | **Wed. PM1 or Thurs. PM1** |
| **Misc (doc 828, 827)** | **Mon. AM1** |
| **Comments depending on 1095** | **Thurs. PM1** |
| **Comments depending in the service selection** | **Thurs. PM1** |

**Comment Resolution: 802.15-15-0789-03 (Jaehwan)**

CID #1370: Revise; field names changed, update text; definition of parent coordinator

**Comment Resolution: 802.15-15-0788-02 (Jaehwan)**

CID #1272: Revised; added reference to 802.15.4m-2014 5.1.14, but this may change before we publish

**Comment Resolution: 802.15-15-0787-01 (Jaehwan)**

CID #1189: Revise; rewrite the subclause; review with Verotiana; xref for 802.15.4

**Comment Resolution: 802.15-15-0786-02 (Jaehwan)**

CID #R1143: Revise; Changed figure in DCN 15-0786-02; Charlie to review.

The Task Group went into recess at 9:30am until the Mon. PM1 session.

**Monday PM1 (November 9)**

Chair called the meeting to order at 2:36pm in Sanger A. Start of meeting was delayed to enable attendance at TG4mc. Clint reviewed the activities of the unofficial morning session.

**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.

**Review and Approval of Agenda (doc# 15-15-0800-02)**

Motion to approve the agenda: (doc# 15-15-0800-02)

Moved: Charlie Perkins Second: Soo-Young Cheng

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

**Approval of Prior Mtg. Minutes (doc# 15-15-0710-00)**

Motion to approve the September meeting minutes: (doc# 15-15-0710-00)

Moved: Charlie Perkins Second: Soo-Young Cheng  
There was no discussion and no objections therefore the motion passed and the minutes were approved unanimously.

**How might 802.15.10 help the progress of 802.15.llc?**

The LLC will be a standard. L2R and KMP are both recommended practices, and so LLC should assimilate those two specifications in order to effectively make them standard.

Discussion about whether there are networks with 100 hops. Discussion about SQS metric, whether it is additive, nonlinear, or …? Discussion about using .001 as a “unit”. Discussion about use of the word “may”. So far, all cases of “may” have meant “should”, so there is not any occurrence of “may” that was intended to mean “may or may not”. It was decided to use one long nested MLME with subtypes.

The Task Group went into recess at 3:30pm until the Monday PM2 session.

**Monday PM2 (November 9)**

Chair called the meeting to order at 4:06pm in Room Sanger A.

**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.

**TG10 Motion 1: Motion to form a TG10 BRC.**

*TG10 requests that 802.15 WG approve the formation of a Ballot Resolution Committee (BRC) for the WG balloting of the 802.15.4 TG10 draft recommended practice with the following membership:* Clint Powell, Verotiana Rabarijaona, Fumihide Kojima, Noriyuki Sato, Kiyoshi Fukui, Soo-Young Chang, Jaehwan Kim, SangSung Choi, Charlie Perkins. *The TG10 BRC is authorized to approve comment resolutions and to approve the start of balloting the TG10 draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences as announced to the reflector.*

Moved by: Charlie Perkins Seconded by: Verotiana Rabarijaona

Discussion: None

Vote: 11/0/0

**Comment Resolution: 802.15-15-0785-02 (Jaehwan)**

CID #1395: Revise; Add address mode to descriptor in Figure 50

CID #1397: Revise; Add text in 6.2.7.1 and in 6.2.7.2

CID #1398: Work in Progress; modify other messages also to add the MCO descriptor. Maybe LSN only needs to be 1 byte, not 2 bytes.

**Comment Resolution: 802.15-15-0873-01 (Sato)**

CIDs #1137, #1141: Revised; Add Address mode in Table 3

CID #1285: Accept;

CID #1290: Revised; Create a new timer renamed to be l2rSnSaRecordTimeout

CID #1296: Revised;

CID #R1209: Revised;

CID # R1062: Rejected for now.

**Comment Resolution: 802.15-15-0899-00 (Verotiana)**

CID #1095: Use “Short Address Allocation Request” bit for signaling in one round trip. macResponseWaitTime does not allow enough time to conduct address assignment. How do neighbors find out the extended addresses of the other neighbors?

The Task Group went into recess (at 6:07pm) until the Wed. AM1 session.

**Tuesday PM3 (November 10)**

Joint session chair called the joint meeting with 802.1 to order at 6:00pm in room Cotton Bowl.

**Update on 802.15.10 - L2R (Clint Powell)**

* TG10 is preparing for a second letter ballot recirculation after making some important changes resulting from previous comments to first letter ballot recirculation.
* A request was made to notify 802.1 folks when 802.15.10 goes to Sponsor Ballot

**Adjourned**

* The Joint meeting adjourned at 7:45pm.

**Wednesday PM1 (November 11)**

Chair called the meeting to order at 1:37pm in room Reunion A.

**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.

**Comment Resolution: 802.15-15-0899-00 (Verotiana)**

CID #1095: Use “Short Address Allocation Request” bit for signaling in one round trip. macResponseWaitTime does not allow enough time to conduct address assignment. Insert new text at end of 5.2.2.1. Also, section 6.2.2.4, should include both addresses.

**Comment Resolution: 802.15-15-0910-01 (Verotiana)**

CID #1329: Revise. Create one LLIE. Replace clause 6.1.

**Comment Resolution: 802.15-15-0827-00 (Verotiana)**

CID #R1231: Replace Figures 6, 7, and 8. Modify 5.1.2.1

802.19 completed their review for compatibility.

Assuming that the reviews are completed, this spec will be counted as a 2015 document.

**Comment Resolution: 802.15-15-0828-01 (Verotiana)**

CID #1157: Revise. Change E-I = 4. Make same changes to figures 15 and 16

CID #1158: Revise.

CID #R1027: Revise.

CID #R1043: Revise. Delete the sentence altogether.

CID #R1127: Revise. Rename the timeout.

CID #R1182: Revise. See CID 1394

CID #R1192: Revise. See CID 1394

**Comment Resolution: 802.15-15-0926-00 (Sato)**

Comments which are related to TC of draft D2 of 802.15.10

Describes re-insertion of Service ID into the protocol; many changes.

Tero has checked the resolutions of his comments in the comment database and they seem O.K. However it would be better to see them in the new draft. For example, CIDs 139 141 287, 368, 394, 408, 503 are marked as resolved.

Comments depending on CID 1095 can be marked as resolved.

**Comment Resolution: 802.15-15-0792-05 (Verotiana)**

CID #1357: Revise: flags need to control omission of various fields; lengthy resolution.

The Task Group went into recess at 3:22pm until the Thurs. PM1 session.

**Thursday PM1 (November 12)**

Chair called the meeting to order at 1:30pm in room Sanger A.

**IEEE-SA Stds. Board Bylaws on Patents in Std's. & Guidelines**

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

**Comment Resolution: 802.15-15-0785-02 (Verotiana)**

CIDs #1398, #1399, #1272: All agreed to.

**Comment Resolution: 802.15-15-0873-01 (Sato)**

CID #1139: Discussion about NLM list and Service ID

CID #1160: Discussion about NLM IE processing for L2R mesh information

**Comment Resolution: 802.15-15-0780-00 (Verotiana)**

CID #1141: Revise; add address mode; affected by Sato-san’s document from yesterday

**Service ID related comments: 802.15-15-0926-00 (Verotiana)**

CIDs from DCB 942: Revise; need to discover any available mesh

* Discussion about when a device might choose to change to a different available mesh (clause 5.1.2.2.2 as revised in DCN 15-15-0942-01)
* Discussion about which parameters need to be passed to MLME-SCAN.request; more generally, whether L2R is one of multiple verticals over lower layer 802.15.4

The Task Group went into recess (at 3:45pm) until the Thurs. PM2 session

**Thursday PM2 (November 12)**

Chair called the meeting to order at 4:11pm in in Sanger A.

Discussion about whether next higher layer can pass down Payload IEs, and then for L2R to append its own Payload IE. Ben points out that a Payload IE \*list\* is passed down, so that the L2R payload IE can be appended. Note that there is a Payload IE, and also a PayloadIE IE, which are quite different.

**Comment Resolution: 802.15-15-0942-01 (Verotiana)**

CID #1189, 1490, 1491: As a result of service ID discussion, will add mesh ID, etc.

**Comment Resolution: 802.15-15-0873-01 (Sato)**

CID # R1062: Revised; clarification added

CID # R1233; Revise;

CID # R1067; Revise;

CID # R1069; Revise;

CID # R1060; Revise;

CID # R1233; Revise;

CID # R1087; Revise.

**LB 110 Comment Resolution Status**

LB 110 Technical Comments - 223

204 Resolved

19 Open

19 WiP (resolution needs work - Work in Progress)

Rogue Technical Comments - 43

42 Resolved

1 Open

1 WiP

Chair asked if there were any objections to approving Verotiana Rabirijaona to modify the document according to all comment resolutions approved during this November meeting

None were heard.

**Conference Call**

Next call (1hr delay of start) will be on Mon., November 16, 7pm-8pm (Arizona Time)

**Adjourning the meeting**:

Closing report (doc. # 15-15-0858-01).

Chair asked if there were any objections to adjourning. None were heard.

The meeting was adjourned at 5:59pm.