**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 March 2016 Plenary Meeting | |
| Date Submitted | [21 March, 2016] | |
| 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 Macao Mtg. during March | |
| Purpose | [TG10 (L2R) meeting minutes.] | |
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**Minutes for IEEE 802.15 TG10 (L2R)**

**March Plenary Meeting**

**14-18 March, 2016**

**Chair - Clint Powell**

**Technical Editor - Verotiana Rabarijaona**

**Secretary - Charlie Perkins**

**Monday PM1 (March 14) (Room Florence 2205 [level 1])**

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| 1. **Monday PM1 – Objectives/Agenda/Approve Mins./Review Status** |
| 1. OPEN |
| 1. IEEE-SA Stds. Board Bylaws on Patents in Std's. & Guidelines |
| 1. Meeting Objectives/Agenda |
| 1. Approval of Agenda (doc. 15-16-0159-01) |
| 1. Approval of January Mins. (doc. 15-16-0110-00) |
| 1. Schedule for the Week |
| 1. Comment Resolution |
| 1. Recess |

Chair called the meeting to order at 1:38pm. 20 people in attendance: Clint Powell, Verotiana Rabarijaona, Noriyuki Sato, Pat Kinney, Don Sturek, Charlie Perkins, Tero Kivinen, Benjamin Rolfe, Kunal, Jussi Haapola, Fumihide, Ed Callaway, Gary Stuebing, 5 others.

**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.

**Meeting Objectives/Agenda**

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| * Monday PM1 – Objectives/Agenda/Approve Mins./Review Status |
| * Monday PM2 – Comment Resolution |
| * Tuesday PM2 – Comment Resolution |
| * Wednesday PM1 – Comment Resolution |
| * Wednesday PM2 – Comment Resolution |
| * Thursday AM2 – Comment Resolution/BRC/Timeline/Next Steps |

**Opening Report (doc# 15-16-0191-00)**

Meetings in Florence 2205, Milan 2105

Meeting Objectives

* Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses
* Results of MEC (Mandatory Executive Committee) review – passed with minor comments
* Two comments from Don Sturek were not marked, and will be marked as technical comments – O.K. with Don.
* Resolve Comments from LB 116; 30 technical comments must be satisfied, 12 do not have to be satisfied
  + Comment Database - doc. # 15-15-0318-43
  + Verotiana’s comments don’t have to be in the database since she voted Yes.
* Thursday: Re-Establish TG10 BRC
* Thursday: Review & Update Timeline

**LB 116 Results**

VOTERS 98

VOTED 74

YES 66

ABSTAIN 4

NO 4

% VOTERS 75.51%

% YES 91.29%

% ABSTAIN 5.41%

# COMMENTS 145 (42 Technical, 101 Editorial, 2 Other)

Rogue Comments 88 (5 Technical, 83 Editorial)

**Agenda approval (doc. # 15-16-0159-01)**

* Moved Charlie , seconded Sato-san ; motion passes without objection

**Minutes approval (doc. # 15-16-0110-00)**

* Moved Sato-san, seconded Verotiana ; motion passes without objection

**Rogue Comments acceptance (doc. # 15-16-0176-00)**

* No objection to including these rogue comments.

**Comment Resolution (doc. # 15-15-0318-43 and also Rogue Comments)**

Verotiana began discussion about Comment Resolution. Discussion about the technical comments. There are 101 editorial comments which can be left to the discretion of the technical editor.

**Discussion about short addressing versus TMCTP.**

Resolution as part of Table 1 in 802.15.4 REVc-D01

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

**Monday PM2 (March 14) (Room Change: Florence 2206 [level 1])**

The meeting came to order at 4:10pm. 13 people in attendance: Clint Powell, Verotiana Rabarijaona, Noriyuki Sato, Charlie Perkins, Ed Callaway, Don Sturek, Fumihide Kojime, 5 others.

**Discussion about technical comments, continued.**

Discussion about how different kinds of “Data Collection” services are distinguished: answer is to use the sub-service ID. Comparison between service IDs versus SSIDs.

Verotiana, following suggestion from Don Sturek: add Mesh ID no longer than 16 octets.

Sato-San starts discussing assigned comments.

Question from Don Sturek: once the key is available (e.g., out of band), 802.15.9 is not needed.  Answer: in this case, the key is replaced.

Add another bit for number of metrics field.

The Task Group went into recess (at 5:58pm) until the Tuesday AM2 session.

**Tuesday AM2 (March 15) (Room Florence 2205 [level 1])**

Chair called the meeting to order at 10:35am. 17 people in attendance, including Clint Powell, Verotiana Rabarijaona, Noriyuki Sato, Charlie Perkins, Ed Callaway, Don Sturek, Fumihide Kojime, Jaehwan Kim, Kunal Shah, Gary Stuebing, Kiyoshi Fukui, Kato, 5 others.

**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.

**Resolutions for Tero Kivinen’s comments; contributed in 15-16-0247-00-0010; discussion by Sato-san**

CID #3115: Accept; update frame format

CID #3116: Accept; add address mode flag

CID #3125: Accept; add address mode flag

CID #3131, #3132, #3132, #3135: Accept; add JoinHandle for multiple processes

CID #3144: Accept;

**Resolutions for comments in DCN 15-16-0251-00-0010, assigned to ETRI – discussion by Jaebeom Kim**

CID #3069: Accept with revision; description given in 5.4.1.3; state that each PAN works on a single channel

CID #3072: Accept with revision; discussion about Figure 18; look at Figure 81 in 802.15.4-REVc

CID #3073: Accept; replace SPC with parent PAN coordinator

CID #3076: Accept

CID #3080: Accept with revision; discussion about out-of-order serial-number frames

CID #3082: Accept with revision; description about rejection of frames with same PSN and SA; timeout parameter added

CID #3088: Accept with revision

CID #3090: Accept

CID #3100: Accept with revision; only a single path is stored for a destination

CID #3112: Accept

CID #3121: Accept with revision

**Resolutions contributed in 15-16-0227-01-0010; discussion by Verotiana Rabirijaona**

CID #3117: Accept with revision

CID #3138: Accept with revision; new timeout parameter; no PURGE command

CID #3139: Accept with revision

CID #3140: Accept with revision

CID #3141: Accept with revision

CID #3142: Accept with revision

CID #3143: Accept with revision

CID #3144: Accept with revision

The Task Group went into recess (at 12:30pm) until the Tuesday PM1 session.

**Tuesday PM1 (March 15) (Room Florence 2205 [level 1])**

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

**Comment Resolution with goal to achieve mutually acceptable resolutions for all comments during this week.**

**Status Update / Verotiana:**

* 17 more technical comments out of original 44 plus 7 plus 5

**Resolutions contributed in 15-16-0244-01-0010; discussion by Charlie Perkins**

CID #3063: Accept with revision

CID #3064: Accept

CID #3096: Accept with revision; provide new Figure showing decision algorithm

CID #3101: Accept with revision; change units to milliseconds

CID #3102: Accept with revision

**Recess at 2:25pm to prepare additional technical comment resolutions.**

* Back in session at 2:47pm

**Resolutions contributed in 15-16-0227-02-0010; discussion by Verotiana**

CID #3022: Discussion about type of clarification requested

CID #3122: resolution accepted with revision

CID #3124: resolution accepted with revision; increase size of Status to 4 bits

CID #3126: resolution accepted with revision

**Resolutions for Tero Kivinen’s comments; contributed in 15-16-0247-00-0010; discussion by Sato-san**

CID #3134: Accept with revision; only update when status is SUCCESS

CID #3135: Accept with revision; remove parameters

The Task Group went into recess at 3:35pm until the Thursday AM1 session.

**Thursday AM1 (March 17) (Room Milan 2105 [level 1])**

Chair called the meeting to order at 8:12am.

**Resolutions contributed in 15-16-0237-02-0010; discussion by Verotiana**

CID #3050: resolution accepted with revision

CID #3092: resolution accepted with revision

CID #3109: resolution accepted with revision; discuss wild-cards for MeshID; null string means “any”

**Membership of TG10 BRC resolving comments for draft D04.**

Clint Powell, Verotiana Rabarijaona, Fumihide Kojima, Noriyuki Sato, Kiyoshi Fukui, Soo-Young Chang, Jaehwan Kim, SangSung Choi, Charlie Perkins. All who were present in the room agreed to remain on the BRC for comment resolution until June.

**Motion for WG approval to form TG10 BRC (as presented in DCN 15-16-0191-02-0010).**

*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

Objections: None

**Discussion about timeline**

* 3rd Letter Ballot Recirculation Jan./Feb. 2016
* WG Sponsor Ballot Approval March 2016
* EC Sponsor Ballot Approval March 2016
* Sponsor Ballot March 2016
* 1st Sponsor Ballot Recirculation July/Aug. 2016
* 2nd Sponsor Ballot Recirculation Sept./Oct. 2016
* 3rd Sponsor Ballot Recirculation Nov./Dec. 2016
* EC Approval March 2017
* RevCom Approval Q2 2017

The Task Group went into recess at 8:54am until the Thursday AM2 session

**Thursday AM2 (March 18) (Room Florence 2205 [level 1])**

Chair called the meeting to order at 10:35am.

**Resolutions for Rogue comments contributed in 15-16-0237-02-0010; discussion by Verotiana**

CID #R3022: resolution accepted with revision

CID #R3031: resolution accepted with revision

CID #R3038: resolution accepted with revision; AA-RLS is not needed in this case.

**Resolutions for Rogue comments; discussion by Sato-san**

CID #R3036: resolution from CID 3032

CID #R3037: resolution accepted with revision; AA-RQ should be invoked early before expiration of the address

CID #R3038: resolution accepted with revision; AA-RLS is not needed in this case.

CID #R3056: need an example to show some usefulness of “mutual link”.

**Resolutions contributed in 15-16-0296-01-0010; discussion by Tero Kivinen**

Problem about accepting multiple RP messages: resolution accepted with revision

**Discussion for CID #3145 in 15-16-0299-01-0010; discussion by Charlie Perkins**

Clarify aspects of multicast routing, service ID, extended addresses for MCO, etc.

**TG10 Conference Calls Reminder**

* + Day: Mon.
  + Time: 6PM-8PM Mon. (Arizona)  
     10AM-Noon Tues. (Japan-JST, Korea)
  + Conf. #: To Be Sent to TG10 Reflector
  + Next Call: Mon. 4th, April (Tues.) (Japan-JST, Korea)

**Adjourning the meeting** **(closing report doc. # 15-16-0191-02-0010)**:

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

The meeting was adjourned at 12:35pm.