IEEE P802.15 Wireless Personal Area Networks

Project	IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)							
Title	4z Comment Resolution Group meeting minutes							
Date Submitted	08-Oct-2019							
Source	[Benjamin Rolfe] E-mail: [ben.rolfe @ ieee.org] [Blind Creek Associates]							
Re:	Comment Resolution, 802.15.4z							
Abstract	Minutes of the Comment Resolution Group							
Purpose	Document meetings							
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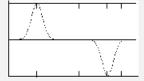
IEEE Project 802

Working Group 15, Amendment 15.4z

Meeting Minutes: Comment Resolution Group

27-October through 07-November 2019

Task Group 4z



Enhanced Impulse Radio

Task Group Chair, CRG Chair: Tim Harrington (Pro-ID Consulting, UWB Alliance)

Task Group Recording Secretary, Vice Chair: Benjamin A. Rolfe (Blind Creek Associates, UWB Alliance, NXP1)

Task Group Lead Technical Editor: Billy Verso (Decawave)

CRG Comment Resolution Editors: Clint Chaplin (Samsung), Billy Verso, Benjamin A. Rolfe

CRG Ballistic Trajectory Advisor: Rocket J. Squirrel

CRG Members:

Member	Affiliation	Member	Affiliation
Aditya Padaki	Samsung	Ayman Naguib	Apple
Benjamin Rolfe	BCA	Billy Verso	Decawave
Boris Danev	3dB-technologies	Brima Ibrahim	NXP Semiconductors
Clint Chaplin	Samsung	David Barras	3dB-technologies
Frank Leong	NXP Semiconductors	Jochen Hammerschmidt	Apple
Mingyu Lee	Samsung	Paul Kettle	Decawave
Peter Sauer	Microchip	Tim Harrington	Pro-ID Consulting
Zheda Li	Samsung		

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¹ See http://www.blindcreek.com/pages/affiliations.pdf for affiliations by 802 activity

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Meeting Preamble

The following was presented at the start of each CRG meeting.

IEEE Patent and Meeting Conduct Presentation

Chair presents the IEEE patent policy information.

Chair directs attendees to review the meeting preamble slides via the link on the 802.15 home page: https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf.

Chair presents slides 1-5. Attendees are informed that:

- The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the IEEE-SA Standards Board Bylaws;
- Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
- There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the
 IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or
 whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the
 standard under development.

At each meeting, the foregoing information was provided. The chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard.

Friday September 27 2019

Call to Order

Called to order 0702 PDT by acting chair Benjamin Rolfe

Meeting Preamble: Attendees are reminded of the IEEE Patent Policy and Meeting Conduct requirements. Chair presents *IEEE Patent and Meeting Conduct Presentation* as given in *Meeting Preamble*.

No disclosures are heard.

Quorum requirement is not met (5/15).

Agenda

Proposed Agenda

- 1. Review status
- 2. Editor questions and discussion
- 3. Any other business

Following neither discussion nor objection, agenda approved by unanimous consent.

Editor Status

Billy Verso is not able to make the call, reported via email. There are several questions he posted to the reflector to take up.

Discussion of Editor Questions

Reviewed the comments marked with ISSUE by Billy and prepared clarifications to provide to the editor.

r1-0191 and r1-0192: As previously discussed, the issue with "should" or "shall" is that the RCM is populated by the higher layer and so normative language defining the behavior of the higher layer is inappropriate. Propose slight change to Billy's suggested wording to be consistent with how this has been handled elsewhere: "In each case, the RCM can be used to indicate the type of ranging that is used."

r1-0196: Propose to change the sentence on page 28, line 26 "However, the responders will respond after fixed reply times FRT1, FRT2, ..., FRTN." to "The ith responder will respond at fixed reply time FRTi shown in Figure 19 where i is from 1 to the number of responders." (Editor to format the i in FRTi as subscript)

r1-0230, r1-0231: Figures have been provided (Aditya).

r1-0447: The resolution is Rejected with detail "The MMRCR field is valid in all ranging rounds." r1-0448 and r1-0672: The new figures have been provided.

r1-0873: Editorial style question. After removing the redundant text and apply the remaining deletions, the clause has no content. For D3 retain 19.8 showing the deleted text. This conforms to the IEEE Standards Style Manual for an amendment as the correct way to show the content of the sub-clause is to be removed.

Recess

Recess at 0758 PDT

Tuesday October 1 2019

Call to Order

Called to order 0709 PDT by acting chair Benjamin Rolfe.

Meeting Preamble: Attendees are reminded of the IEEE Patent Policy and Meeting Conduct requirements. Chair presents *IEEE Patent and Meeting Conduct Presentation* as given in *Meeting Preamble*.

No disclosures are heard.

Quorum requirement is met (8/15).

Agenda

Proposed Agenda:

- 1. Recirculation plans
- 2. AoB

Following neither discussion nor objection, agenda approved by unanimous consent.

Status of Recirculation

Editor reports > 99% done. Working on the MAC SAP ranging parameters reorganization which completes remaining technical comments, and a few editorials. Expect to complete end of today or by early tomorrow AM. Will start the recirculation as soon as possible after draft is completed. Note: recirculation was approved upon completion of edits in the Sept. meting.

Recess

Recess at 07:21 PDT.

Thursday, October 3, 2019

Called to order 15:32 by acting chair Benjamin Rolfe.

Meeting Preamble: Attendees are reminded of the IEEE Patent Policy and Meeting Conduct requirements. Chair presents *IEEE Patent and Meeting Conduct Presentation* as given in *Meeting Preamble*.

No disclosures are heard.

Quorum requirement is not met (6/15).

Agenda

Proposed Agenda:

- 1. LB162 Planning
- 2. AoB

Following neither discussion nor objection agenda is approved by unanimous consent.

Discussion

Discussion of schedule. The Ballot was delayed another day and so will close on 18-Oct (the Friday following the BRC face to face meeting scheduled). To complete a third recirculation by the November meeting, comment resolution and editing must be completed in a week following. The strategy is to reach out to LB162 voters who have provide the most comments and request that, if possible, they submit comments early so that the BRC and editor may get a head start.

Given the risk of not having comments received by the start of the face to face (14-Oct) to fill 4 full days, it is suggested that for those who must travel a long distance, virtual attendance is sufficient, and those who are local will attend in person. This minimizes the impact of finishing early. Clint will circulate via the reflector.

Ben will reach out to the identified voters.

AoB

None.

Recess

Recessed at 03:54pm PDT.

Tuesday, October 8, 2019

Called to order at 07:05 PDT by [someone].

Meeting Preamble: Attendees are reminded of the IEEE Patent Policy and Meeting Conduct requirements. Chair presents *IEEE Patent and Meeting Conduct Presentation* as given in *Meeting Preamble*.

No disclosures are heard.

Quorum requirement met (10/15).

Agenda

Proposed Agenda:

- 1. Ballot Status and Plan
- 2. CRG Meetings next week
- 3. Discussion
- 4. AoB

Following neither discussion nor objection agenda [will be] approved by unanimous consent.

Status

Ballot underway. Outreach to solicit early comments completed. Replies from most of CRG received.

CRG Meetings Week of 14-Oct

Plan per last week. Logistics emails should be out later this week. More precise agenda will be put together as we receive comments. Call in will be as last time. Commence 9am Monday.

Discussion

Email discussion on a couple issues found so far are discussed. Regarding Peter's email on the resolution to r1-0746, Boris notes this is minor and he will submit a comment to clarify. Regarding negative values of AoA raised by Zheda, Billy has been working on a proposal which will be ready for review by the end of the week.

AoB

Planned call for Thursday, Oct 10: The group decides that the call is not needed and so we can recess until 09:00 PDT Oct 14th.

Recess

Recess at 07:42 PDT.

Monday, October 14, 2019

Called to order *TBD* PDT by [*someone*].

Meeting Preamble: Attendees are reminded of the IEEE Patent Policy and Meeting Conduct requirements. Chair presents *IEEE Patent and Meeting Conduct Presentation* as given in *Meeting Preamble*.

No disclosures are heard.

Attendance:
In person:
Via telecom:

Quorum requirement *TBD*.

Agenda

Proposed agenda:

- 1. Getting teleconference link up and running
- 2. TBD
- 3. AoB

Following neither discussion nor objection, agenda approved by unanimous consent.

Discussion

TBD

Recess

Tuesday, October 15, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Wednesday, October 16, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Thursday, October 17, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Tuesday, October 22, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Thursday, October 24, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Tuesday, October 29, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Thursday, October 31, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Tuesday, November 05, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Recess

Thursday, November 07, 2019

Called to order *TBD* PDT by TBD.

Agenda

Proposed agenda:

1. TBD

Discussion

TBD

Adjourn

Motion to adjourn:

Motion is non-debatable.

Upon neither discussion nor objection motion carries by unanimous consent.

Adjourned at *TBD* PDT.

Gratuitous Squirrel Image



BRC Attendance

CRG Roll Call	27-Sep	1-Oct	3-Oct	8-Oct	10-Oct	15-Oct	17-Oct	22-Oct	24-Oct	29-Oct	31-Oct	5-Nov	7-Nov	12-Nov	14-Nov
Aditya Padaki	Yes	No	No	Yes											
Ayman Naguib	No	Yes	Yes	Yes											
Ben Rolfe	Yes	Yes	Yes	Yes											
Billy Verso	No	Yes	No	Yes											
Boris Danev	No	Yes	No	Yes											
Brima Ibrahim	No	No	Yes	Yes											
Clint Chaplin	No	Yes	Yes	Yes											
David Barras	No	No	No												
Frank Leong	No	Yes	No	Yes											
Jochen Hammerschmidt	No	No	No												
Mingyu Lee	Yes	Yes	Yes	Yes											
Paul Kettle	No	No	No												
Peter Sauer	No	No	No												
Tim Harrington	Yes	No	No	Yes											
Zheda Li	Yes	Yes	Yes	Yes											
Attendance	5	8	6	11	0	0	0	0	0	0	0	0	0	0	0
Quorum	NO	YES	NO	YES	NO	NO	NO	NO	NO						
Other attendees															
Tero Kivinen	No	No	No												

Kangin Yoon

Rich Foster

Yes

Yes

Yes

Yes

Yes