**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | **IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)** |
| Title | **TG4md March 11, 2019 CRG Minutes** |
| Date Submitted | [March 11, 2019] |
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| Re: |  |
| Abstract | [IEEE 802.15 TG4md CRG Minutes.] |
| Purpose | [Report progress to WG.] |
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IEEE 802.15.4md Monday PM2

Attendees:

Gary Stuebing - Chair

Donald Sturek – Co-chair

Matt Gillmore

Tero Kivin

Ruben Salazar

Meeting began at 14:00 PT

15-19-0102-02 presentation was given



A reminder was given for Confidentiality and Anti-Trust.

A call was made for essential patents. None were declared.

Agenda for the week was shown

Monday PM2

Tuesday AM2, PM2

Wednesday AM2, PM2

Thursday AM2 PM2

Charlie motions to approve the agenda Ruben Salazar seconded. Motion carries with unanimous concent

Chair called to Review and approve minutes DCN 36. No objections. Minutes are approved

Chair asked for objections to CRG meeting minutes being approved, no objections.

Comment resolution resumed

CRG Spreadsheet is 15-18-433-25

CID#168 – Resolved with CID 119 resolution from CID 119 copied to 168 proposed resolution

CID#172 – Table 8-77 PR: Modify / replace figs 6-85 and 6-86 with slides 3,4 of 15-19-0087-03.04md

CID#185 – Resolution proposal PER CID 101, ScopeID will be changed to integer Table 7-16 needs to change to 0, 1,

CID#187 – PR: RE\_WORD: The MLME-SRM-REPORT indicates the reception of an SRM Report MAC Command frame. Also see 15-19-607-02

CID#189 -PR: Change the srmscopeid defined in table 7-15 to integer vs binary

CID#190 – PR: same resolution as CID 119 and refined by CID 168.

CID#197 - PR: same resolution as 189

CID#198 – PR: Resolved by CID 190

CID#200 – PR proposed is accepted by the group

CID#202 – Used the proposed resolution in DCN 607-02 group agreed



CID#207- PR in DCN 607-02 resolution for CID 208

CID#208 – Use resolution for CID 207

CID#220 – Change table 8-106 type of MacNoiseHistogram to array of integers accepted by group

CID#221 – REJECT

CID#222 - Remains deferred for now

CID#229 – 15-19-0060-00 has the proposed resolution

Discussion on 229 will continue next session

Meeting was recessed at 16:00 PT

Meeting called to order Tuesday 3/12/2019 at 10:30pt

Comment resolution resumes:

CID#222 – DCN 130 presented as proposed resolution. Start time in SRM was not clarified with DCN 130 r0 and will be addressed at DCN 130r1. Still open

CID#27 – After email from Kunal, PR is ok and the comment is changed to Revised

CID#226 – Only SRM table byte ordering will be changed in the tables. Comment is changed to revised

CID#103 – left open for now

CID#22 – Left open for now

CID#229 – Remove section c.22 add contents of DCN 060-02. Group agrees to accept. Comment closed

CID#234 – This comment is also addressed with DCN 060-02

Three comments remain open 103, 222, 22

Group is moving to Rogue Comments

CID 1013 – Group agreed to change status to revised. PR: MLME frame pending description will be updated in table 8-88

CID 1016 – Left open with question to commenter about what “preamble” refers to (e.g. phy preamble vs MAC header start)

CID 1024 – Group agrees to mark the comment as revised using the proposed PR and closed

CID 1030 – Rejected by group and the commenter is encouraged to review the SRM section to see if the needed information is covered

CID 1035 – See DCN 129-0 Question raised about whether Table 8-95 also needs to be modified with the proposed resolution. Comment left open

CID 1038 – Group agrees to accept the comment and marked the comment Revised. SrcAddrMode added to the MLME\_Beacon.request

Group Recessed at 11:57am

Group resumed session at Tuesday PM2 4:01pm PT

Comment resolution resumes with DCN 15-18-0433-27

CID 1035 – Revisited, See DCN 129-2. Group agreed to mark the comment revised and closed. Tero will examine DCN 129-2 offline

CID 1040 – Remain deferred, Tero will create a proposed resolution for this comment

CID 1041 – Group agreed that MLME-Data.confirm will have the ability and new primitive to support frame pending capability and will affect sections 8.3.2, 7.3.3 and 7.3.3 should point to 6.12.1. Tero will make a proposal. Comment remains deferred

CID 1043 – Group agreed to change “automatic data requests” to “automatic Data Request command”

CID 1045 – Same/Similar to 1041 Tero will make a proposal. Remains Deferred

CID 1048 – Remain defer, Tero will take action

CID 1049 – Rejected the comment because implementations are not prohibited to received unsecured frames. See Section 9.5 table 9-14 there is a secExempt flag that allows receiving of frames not supporting current policy. Comment closed

CID 1050 – Don took action to clarify the use case of this requirement to change the EUI’64 used to create the NOUNCE

CID 1051 – Defer action assigned to KUNAL

CID 1052 – Defer action assigned to Kunal

CID 1053 – Defer Action assigned to Kunal, Pat, Ed

CID 1054 - Group agrees that 18 phy whitening is correct and section 17.3 GFSK is possibly incorrect. Matt has the action

CID 1082 – Group accepts adding AEAD to acronyms. Group also agrees to change the comment to editorial

CID 222 – DCN 130 r1 was presented and the group agrees with the PR. Comment is marked revised and closed

Group recessed @ 5:50pm PT

Meeting called to order @ 8:38 am PT 3/13/19

Outstanding comment review

DCN 136 r1 presented, 15-19-0433-28 comment resolution spreadsheet used

CID 1040 – See DCN 136 r1 group accepts the comment and proposes to use the resolution for CID 1045 to resolve the comment, comment marked revised and closed

CID 1045 – Group agrees to use PR from DCN 136 r1, comment marked revised and closed

CID 1041 – See DCN 136 r1 slide 11, group accepts the PR, comment marked revised and closed

CID 1048 – Group agrees to reject as the proposed change is not need as KID modes 2 and 3 already support group keys

All open comments have been reviewed,

Group recesses until AM 2 3/14/19

Meetings resumed at 10:30am PT Thursday

CID 1052 – group agrees to accept, comment is closed

CID 1051 – group had concern about number of channels and guard bands, Chris takes an action item to figure out. Comment is similar to 1054

Action to ask Kunal to integrate 802.15.4x

Group reviewed remaining action items

6 comments remain un-resolved

Motion made to form CRG:

Proposed CRG members

 Don, Kunal, Ruben, Tero, Phil, Shoichi

Moved by: Don Sturek

Seconded by: Ruben Salazar

Motion passed with no objection

Call for AOB

Motion to adjurn raised by Don Sturek, Seconded by Matt

Meeting Adjourned @ 11:27am PT Thursday