IEEE P802.11
Wireless LANs

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| Telecon Minutes for REVmd CRC- Sept 8, 9, and 10, 2020  |
| Date: 2020-09-08 |
| Author(s): |
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Abstract

This file contains the minutes for the 802.11md REVmd CRC Telecons from September 8 to September 11, 2020.

R0: Minutes for September 8, 2020.

1. **IEEE 802.11md REVmd CRC Telecon Tuesday, September 8, 2020 15:00-17:00 ET**
	1. **Called to order at 3:04** pm ET by the TG Chair Dorothy STANLEY (HPE)
	2. **Review Patent and Participation Policy**
		1. No Issues noted.
	3. **Attendance:** -please log with IMAT:
		1. About 13 attendees reported by WebEx

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TGmd | 9/8 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
|  | TGmd | 9/8 | Coffey, John | Realtek Semiconductor Corp. |
|  | TGmd | 9/8 | Derham, Thomas | Broadcom Corporation |
|  | TGmd | 9/8 | Goodall, David | Morse Micro |
|  | TGmd | 9/8 | Hamilton, Mark | Ruckus Wireless |
|  | TGmd | 9/8 | Kwon, Young Hoon | NXP Semiconductors |
|  | TGmd | 9/8 | Levy, Joseph | InterDigital, Inc. |
|  | TGmd | 9/8 | Montemurro, Michael | Self |
|  | TGmd | 9/8 | Qi, Emily | Intel Corporation |
|  | TGmd | 9/8 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 9/8 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 9/8 | Stanley, Dorothy | Hewlett Packard Enterprise |
|  | TGmd | 9/8 | Wentink, Menzo | Qualcomm Incorporated |

* + 1. Missing from IMAT: None reported
	1. **Review Agenda** 11-20/1211r7:
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1211-07-000m-2020-august-sept-agendas.docx>
		2. **The draft agenda for the teleconferences is below:**

1.       Call to order, attendance (<https://imat.ieee.org/attendance> ), and patent policy

a.       **Patent Policy: Ways to inform IEEE:**

1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
3. Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

b.      Patent, Participation and policy related slides: See slides 4-19 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>

2.       Editor report – Emily QI/Edward AU – see <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-28-000m-802-11revmd-editor-s-report.ppt> and <https://mentor.ieee.org/802.11/dcn/19/11-19-2156> .

3.       Comment resolution and motions

1. **2020-09-08 Tuesday 3PM Eastern 2 hours**
	1. Emily Qi – comment resolutions, <https://mentor.ieee.org/802.11/dcn/20/11-20-1412-00-000m-revmd-sa2-comments-for-editor-ad-hoc.xlsx> and <https://mentor.ieee.org/802.11/dcn/20/11-20-1413-00-000m-sa2-proposed-resolutions-for-editor-adhoc-and-others.doc>
	2. Edward Au- <https://mentor.ieee.org/802.11/dcn/20/11-20-1414-01-000m-resolutions-for-some-recirculation-sa-ballot-comments.docx>
	3. Menzo Wentink - <https://mentor.ieee.org/802.11/dcn/20/11-20-1405-01-000m-comment-resolutions-on-revmd-draft-4-0.docx>
	4. Mark Rison <https://mentor.ieee.org/802.11/dcn/20/11-20-0435>
	Discussed in TGmd and agreed: CIDs 5045 (was 4746), 5054 (was 4523), 5065 (was 4629), 5053 (was 4220), 5064 (was 4477), 5069 (was 4725)
	Discussed in TGmd, direction agreed, pending additional review: CIDs 5044 (was 4247), 5056 (was 4602), 5057 (was 4527), 5058 (was 4699)

Additional SA ballot GEN CIDs: 5037 (was 4808), 5039 &5040 & 5041 (was 4204-4206)

1. **2020-09-09 Wednesday 4-6pm Eastern 2 hours**
	1. Presentations and CID resolutions
	2. Srini Kandala– BSS Max Idle period presentation <https://mentor.ieee.org/802.11/dcn/20/11-20-1313-02-000m-bss-max-idle-period-negotiation-enhancements-for-non-s1g-phys.docx>
2. **2020-09-11 Friday 10 am Eastern 2 hours**
	1. Motions
	2. Menzo Wentink, <https://mentor.ieee.org/802.11/dcn/20/11-20-1405-00-000m-comment-resolutions-on-revmd-draft-4-0.docx>
3. **Announce next set of teleconferences**

4.       AOB

5. Adjourn

* + 1. No objection to the displayed Agenda.
	1. **Editor Report** Emily QI (Intel)
		1. Review doc 11-17/920r28:
		2. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-28-000m-802-11revmd-editor-s-report.ppt>
		3. BAllot Comments in 11-19/2156r20
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156-20-000m-revmd-sponsor-ballot-comments.xlsx>
		4. Review submission
		5. 11 Commenters with 82 comments.
		6. THANKS to Emily for organizing the Comments over the weekend.
		7. Plan to get the resolution done in next 2 weeks.
	2. **Review doc 11-20/1412r0** - Emily QI (Intel) – comment resolutions,
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1412-00-000m-revmd-sa2-comments-for-editor-ad-hoc.xlsx>
		2. Review overview of comment set.
		3. 
		4. Assignments made:
		5. 
		6. Of the 13 assigned to Editor 5 trivial editorial comments
		7. CID 5024, 5026, 5027, 5028, 5055 (EDITOR)
			1. Proposed Resolution: Accepted
			2. Mark Ready for Motion
		8. Remaining Editor CIDs address in submission 11-20/1413r0.
	3. **Review Doc 11-20/1413r0** Emily QI (Intel)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1413-00-000m-sa2-proposed-resolutions-for-editor-adhoc-and-others.doc>
		2. CID 5002 (EDITOR)
			1. Review comment.
			2. Review optional changes.
			3. Removing references from figures allows for auto update to references.
			4. P3242 there is another instance of this type reference,
				1. See p3065.23, p3242.8, p3242.22, 3242.25 and at 3063.23.
			5. Discussion on the options.
			6. Discussion on if the references could be added to the text describing the figure.
			7. More work to look for an option to include some text that has the auto updateable reference is included.
			8. Get review of proposed change from PHY group of experts.
		3. CID 5005 and 5006 (EDITOR)
			1. Review CID 5005 comment
			2. Review P1514.3
			3. Review CID 5006 comment
			4. Proposed resolution: CID 5005: Revised; Replace "Table 9-360 (ADDBA Request frame Action field)" with "see Table 9-350 (Basic ADDTS Request frame variant Action field format) and Table 9-351 (DMG ADDTS Request frame variant Action field format)".
			5. Proposed resolution: CID 5006 - Accept
			6. No Objection Mark Both CIDs Ready for Motion
		4. CID 5003 (MAC)
			1. Review Comment
			2. Review P2282.40
			3. Dot11ExtendedChannelSwitchActiveated variable states discussed.
			4. When false, do not send “Extended” versions.
			5. Proposed Resolution: Accept
			6. Discussion on what the false state means.
			7. Mark Ready for Motion
		5. CID 5004 (MAC)
			1. Review comment
			2. Discussion on ECSA frame as a Public Action Frame.
			3. CSA element may not be included in Public Action Frame.
			4. Proposed Resolution: Revised; Remove cited Sentence.
			5. Discussion on if we need to keep the elements in different frames to provide legacy protection.
			6. May need to ensure both elements are in separate frames.
			7. Alternate Proposal: change the sentence to indicate two separate frames or just delete the word “Public”.
			8. Updated Proposed Resolution: Revised: delete the word “Public” from the cited sentence.
			9. Mark Ready for Motion
		6. CID 5019 (EDITOR)
			1. Review comment
			2. Review the proposed change
			3. Proposed Resolution: Accept
			4. Discussion of some alternates to the sentence.
			5. Review 9.7.2.
			6. Alternate proposal: Change to “It is used as a check sequence to protect the fields that recede it in the MPDU delimiter”.
			7. Parent clause is 9.7 frame format.
			8. Then the subsequent sub-clauses are more particular.
			9. Add a reference to the Table 9-528 and table 9-527 that points to 9.7.2.
			10. At 1686.50 and 1687.11 add “(See 9.7.2)”.
			11. Updated Proposed Resolution: Revised.

Change the cited sentence to “It is used as a check sequence to protect the fields that precede it in the MPDU delimiter”.

At 1686.50, 1687.11, add “(see 9.7.2)”.

* + - 1. Mark Ready for Motion
	1. **Review Doc 11-20/1414r1** - Edward Au (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1414-01-000m-resolutions-for-some-recirculation-sa-ballot-comments.docx>
		2. CID 5082 (EDITOR2)
			1. Review comment
			2. Proposed resolution: Accepted
			3. No objection – Mark Ready for Motion
		3. CID 5080 (EDITOR2)
			1. Review comment
			2. Proposed Resolution: Accepted.
			3. No objection – Mark Ready for Motion
		4. CID 5077 (EDITOR2)
			1. Review comment
			2. Discussion on the use of Antenna connector.
			3. Proposed Resolution: Revised.

At 3089.58 and 3473.23, replace “antenna connector(s)” with “antenna connector”.

At 3642.19 and 3672.34, replace “Antenna connector(s)” with “Antenna connector”,

At 3672.34 and 3672.39, replace “16.3.6.11 (Transmit and receive impedance at the antenna connector)” with “16.3.6.7 (Transmit and receive in-band and out-of-band spurious emissions)”.

* + - 1. ACTION ITEM: Ask Youhan KIM review the resolution.
			2. Mark Ready for Motion
		1. CID 5052 (EDITOR2)
			1. Review comment
			2. Proposed Resolution: Accepted.
			3. No objection – Mark Ready for Motion
		2. CID 5023 (EDITOR2)
			1. Review comment
			2. Proposed Resolution: Accepted.
			3. No objection – Mark Ready for Motion
		3. CID 5072 (EDITOR2)
			1. Review comment
			2. Review editorial style of “set to 1” for a bit field.
			3. Proposed resolution for CID 5072 (EDITOR2): Revised.

At 2559.47, replace

An SAE peer, e.g. a mesh STA or an AP, indicates support for direct hashing to obtain an ECC password element by setting the SAE hash-to-element bit in the Extended RSN Capabilities field in all Beacon and Probe Response frames.

with

An SAE peer, e.g. a mesh STA or an AP, indicates support for direct hashing to obtain an ECC password element by setting the SAE hash-to-element bit to 1 in the Extended RSN Capabilities field in all Beacon and Probe Response frames.:

* + - 1. No objection - Mark CID 5072 Ready for Motion
		1. CID 5015 (EDITOR2)
			1. Review comment
			2. Proposed resolution for CID 5015 (EDITOR2): Rejected.

256QAM 5/6 is supported in 2 MHz as shown in Table 23-47.

* + - 1. No objection Mark Ready for Motion
		1. CID 5067 (EDITOR2)
			1. Review comment
			2. Review potential options.
			3. Proposed resolution: Accepted.
			4. No objection Mark Ready for Motion
		2. CID 5060 (EDITOR2)
			1. Review Comment
			2. Proposed resolution: Accept
			3. Review revised figure.
			4. The letters in the box seemed to be mirrored…
			5. No objection Mark Ready for Motion
		3. CID 5059 (EDITOR2)
			1. Review comment
			2. Review proposed changes.
			3. Proposed resolution for CID 5059 (EDITOR2):

Revised:

Change “<=” to “≤” in the following locations:

824.26 (twice), 2116.5 (twice), 2368.8, 2369.15, 2370.9, 2555.41 (twice), 2555.43 (twice), 2558.33, 3444.37 (twice), 4379.55 (twice), and 4379.59 (twice).

Change “>=” to “≥”in the following locations: 2368.21, 2369.19, 2370.15, 2371.5, 3355.13, 3355.30

Add a space after “≥”in the following locations: 3355.13, 3355.30

Change “-” to a minus glyph in the following location: 824.26

At 2369.54, replace “Example negotiation and measurement exchange sequence, ASAP=1 FTMs Per Burst = 2” with “Example negotiation and measurement exchange sequence, ASAP=1, and FTMs Per Burst = 2”.

Note to the commenter: 11.22.6.4 (Measurement exchange body) should be 11.21.6.4 (Measurement exchange body)

* + - 1. No objection Mark Ready for Motion
		1. CID 5012 (EDITOR)
			1. Review comment
			2. Review discussion in submission.
			3. Confirmed the locations and definitions with DMG experts.
			4. Proposed resolution for CID 5012 (EDITOR):

Revised:

At 324.55, 342.10, 364.36, 384.33, 397.60, replace

“DMG BSS: 0-24, 9.1, or 12.1-12.6, for each member of the set” with

“DMG BSS: 0-12, 9.1, 12.1-12.6, or 25-31, for each member of the set”.

At 328.46, replace

“DMG BSS: 0-12, 9.1, or 12.1-12.6, for each member of the set” with

“DMG BSS: 0-12, 9.1, 12.1-12.6, or 25-31, for each member of the set”.

* + - 1. No objection – Mark Ready for Motion.
		1. Revision 2 will be posted with all these resolutions.
	1. **Review doc 11-20/1405r1** - Menzo Wentink (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1405-01-000m-comment-resolutions-on-revmd-draft-4-0.docx>
		2. CID 5013 (MAC)
			1. Based on CID 4725 on draft 3.0
			2. Propose4d Resolution: Accepted
			3. No objection – Mark Ready for Motion.
		3. CID 5070 (MAC)
			1. Review comment – same comment different proposed change as CID 5013.
			2. Proposed resolution: use the same Proposed change as the Revised resolution for CID 5070
			3. No objection – Mark Ready for Motion.
		4. CID 5069 (GEN)
			1. Review Comment – Same comment with similar proposed change in CID 5013.
			2. Proposed resolution: use the same Proposed change as the Revised resolution for CID 5070
			3. No objection – Mark Ready for Motion.
		5. CID 5034 (MAC), 5035 (EDITOR), 5036 (GEN), 5014 (GEN):
			1. Review comment
			2. Review discussion.
			3. Discussion on the use of “Decimal” and the equation of “dec” is not the same.
			4. Discussion on the reflector will continue this set of comments.
			5. Move CID 5035 and CID 5034 to GEN to group together and assign to Menzo.
	2. Review Agenda for tomorrow
		1. Start with Mark RISON
	3. Adjourn 5:02 pm ET.

**References:**

**September 8:**

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1211-07-000m-2020-august-sept-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>
3. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-28-000m-802-11revmd-editor-s-report.ppt>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156-20-000m-revmd-sponsor-ballot-comments.xlsx>
5. <https://mentor.ieee.org/802.11/dcn/20/11-20-1412-00-000m-revmd-sa2-comments-for-editor-ad-hoc.xlsx>
6. <https://mentor.ieee.org/802.11/dcn/20/11-20-1413-00-000m-sa2-proposed-resolutions-for-editor-adhoc-and-others.doc>
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8. <https://mentor.ieee.org/802.11/dcn/20/11-20-1405-01-000m-comment-resolutions-on-revmd-draft-4-0.docx>