IEEE P802.11
Wireless LANs

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| Telecon Minutes for REVme - October-2021 |
| Date: 2021-10-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
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|  |  |  |  |  |

Abstract

R0: Oct 1 Telecon Minutes – initial

R1: Oct 15 Telecon Minutes added

R2: Oct 18 Telecon Minutes added

R3 – Action Items list added to Abstract and corrected CID 154 should be 152 (2.10.3):

ACTION ITEMS:

* + 1. ACTION ITEMS #1:
			1. Emily and Edward to ask the Reflector if there are any 11ay implementations that may be affected.
			2. Robert to add an ANA standing item be added to the Editor meeting.
			3. Michael to schedule agenda Time to be scheduled to prepare the Corrigenda PAR for
			4. Jon to prepare a PAR Request for Corrigenda.

2.10.6.5 ACTION ITEM #2: Mark H and Mark R to work together for creating the Reject rationale for CID 178 (MAC).

* + 1. ACTION ITEM #3 – Mark RISON – Reach out to S1G SME to comment on CID 324 (PHY).
1. **TGme (REVme) Telecon Friday October 1st, 2021, at 10-12:00 ET**
	1. Called to order 10:02am ET by the TG Chair, Michael MONTEMURRO (Huawei).
		1. Introductions of Officers.
			1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
			2. Vice Chair - Mark RISON (Samsung)
			3. Editor - Emily QI (Intel)
			4. Editor – Edward AU (Huawei)
			5. Secretary - Jon ROSDAHL (Qualcomm)
	2. Notice of Blocking of Listserv traffic given (Sept 24-29), Please check archive to ensure you have seen all the emails sent to the stds-802-11-TGm reflector.
	3. **Attendance:**
		1. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 2 | Coffey, John | Realtek Semiconductor Corp. |
| 3 | Hamilton, Mark | Ruckus/CommScope |
| 4 | Kim, Youhan | Qualcomm Incorporated |
| 5 | Levy, Joseph | InterDigital, Inc. |
| 6 | Lou, Hanqing | InterDigital, Inc. |
| 7 | Lumbatis, Kurt | CommScope, Inc. |
| 8 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 9 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 10 | NANDAGOPALAN, SAI SHANKAR | Synaptics |
| 11 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 12 | RISON, Mark | Samsung Cambridge Solution Centre |
| 13 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 14 | Torab Jahromi, Payam | Facebook |
| 15 | Wei, Dong | NXP Semiconductors |
| 16 | YANG, RUI | InterDigital, Inc. |

* + 1. Webex Attendance not in IMAT:
			1. Dave HALASZ (Morse Micro)
			2. Emily QI (Intel)
	1. **Review Patent Policy and Copyright policy** and Participation Policies.
		1. No issues were noted.
	2. **Review agenda:11-21/1572r1:**
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1572-01-000m-sep-nov-teleconference-agendas.docx>
		2. **The approved agenda for the Sept 27-Nov 1 teleconferences is below:**

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

1. By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

c.      Patent, Participation and policy related slides: See slides 4-19 in <https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>

2.       Editor report – Emily QI/Edward AU

3.       Comment resolution and motions

1. **Monday September 27, 2021 – 10am – noon Eastern**
	1. Discussion on additional teleconferences

(Open Fridays Oct 15, 22, 29, Nov 5)

* 1. Comment resolution
		1. CID 12 – Chair – Michael MONTEMURRO
		2. Document 11-21/1383 – GEN CIDs - Stephen MCCANN (Huawei)
		3. Document 11-21/1128 – Mark RISON (Samsung)
		4. Document 11-21/829 – Assigned CIDs (including CID 294) -- Mark RISON (Samsung)
		5. Document 11-21/965 – PHY CIDs – Brian Hart (Cisco)
1. **Friday October 1, 2021 – 10am – noon Eastern**
	1. Comment resolution

Montemurro (Huawei) – CID 594, 116

Document 11-21/xxxx – Wentink (Qualcomm) – TDLS CIDs

Document 11-21/809 – Bhandaru (Broadcom)

Document 11-21/816 – Rison (Samsung)

1. **Monday October 18, 2021 – 10am – noon Eastern**
	1. Comment resolution
		1. Document 11-21/1448 – Chen (Intel)
		2. Document 11-21/xxx – Qi (Intel) /Sakoda (Sony)
2. **Monday October 25, 2021 – 10am – noon Eastern**
	1. Motions (document 11-21/758r7)
		1. TBA
	2. Comment resolution
		1. <>
3. **Monday November 1, 2021 – 10am – noon Eastern**
	1. Comment resolution
		1. <>

5.       AOB

6. Adjourn

* + 1. No objection to the agenda – Unanimous Approval
	1. **Editor Report** – Emily QI (Intel)
		1. Most likely will get source file for 11ba next week.
		2. Most likely, we will have all the comment resolution and TGba into D0.04.
		3. CID 116 (SEC):
			1. Review comment
			2. Review comment history of different proposals.
			3. Discussion on the structure change that may be done later.
			4. Discussion on more changes that may or may not be a consensus point of view
			5. Proposed resolution: Revised: Replace

"If Sync is not greater than dot11RSNASAESync, the protocol instance shall verify that the finite cyclic group is the same as the previously received SAE Commit message. If not, the frame shall be silently discarded. If so, the protocol instance shall increment Sync, increment Sc, and transmit its SAE Commit message and its SAE Confirm message with the new Sc value."

with

"If Sync is not greater than dot11RSNASAESync, the protocol instance shall verify that the finite cyclic group is the same as in the previously received SAE Commit message. If it is not, the frame shall be silently discarded. Otherwise, the protocol instance shall increment Sync, increment Sc, and transmit its SAE Commit message and its SAE Confirm message with the new Sc value."

* + - 1. Straw poll on Question:
				1. Do you support what is being presented as a resolution (x.x.x)?
				2. Results: 5-3-3-3 Yes/No/Abstain/DNV
			2. Another suggested Editorial change was made also: "If Sync is not greater than dot11RSNASAESync, the protocol instance shall verify that the finite cyclic group is the same as in the previously received SAE Commit message, and if it is not, the frame shall be silently discarded. If Sync is greater than dot11RSNASAESync, the protocol instance shall increment Sync, increment Sc, and transmit its SAE Commit message and its SAE Confirm message with the new Sc value."
			3. More offline discussion will be done.
		1. CID 594 (SEC)
			1. Review comment
			2. Review proposed resolution
			3. Discussion on adding “parameter” after the parameter name.
			4. Discussion on the scope of the comment. The resolution covers what the commenter actually wanted, but the words in the comment is not precisely describing the requirement.
			5. How many counters for the Key RSC (p2631.13)? Each replay counter per TID.
			6. Review context - P418.20
			7. Proposed Resolution: Revise; At 418.31, Change "When the Key Type is Group, IGTK, or BIGTK, and the key matches the GTK, IGTK, or BIGTK, if any, installed as a result of EAPOL-Key frames (see 12.7.7.4 (Group key handshake implementation considerations)) or exiting WNM sleep mode (see 11.2.3.16.1 (WNM sleep mode capability)) receipt of this primitive shall have no effect,"

To

"When the Key Type parameter is Group, IGTK, or BIGTK, and the key matches the GTK, IGTK, or BIGTK, if any, installed as a result of EAPOL-Key frames (see 12.7.7.4 (Group key handshake implementation considerations)) or exiting WNM sleep mode (see 11.2.3.16.1 (WNM sleep mode capability)), and the Receive Sequence Count parameter is not greater than all of the current RSC value(s), receipt of this primitive shall have no effect."

* + - 1. No objection – Mark Ready for Motion
	1. **Review Document 11-21/816r6** – Rison (Samsung)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0816-02-000m-on-a-msdu-addressing.docx>
		2. Abstract: This submission discusses the addresses present in the context of A-MSDUs, and constraints thereon.
		3. Review submission changes from last presentation.
		4. Combining the bullets in 10.11 (see page 5 of submission).

• The RA may be a group address if all of the following conditions are met:

O the frame is from an AP or PCP, or between IBSS, PBSS or mesh STAs

O the DAs in all A-MSDU subframe headers are group addresses, or the frame is transmitted under GLK and the RA is a SYNRA

Otherwise, the RA shall be an individual address.”

* + 1. Discussion on the contents of the “NOTE”. Ok to leave as is.
		2. Discussion on the wording of the 2nd NOTE - NOTE—The address AA-AA-03-00-00-00 is that which results from an attack in which an encrypted QoS Data frame not containing an A-MSDU (whose unencrypted frame body therefore starts with an LLC header followed by a SNAP header constructed per IETF RFC 1042) has the A-MSDU Present subfield changed to 1 by an attacker to cause it to appear to be a PP A-MSDU with multiple MSDUs (each preceded by an A-MSDU subframe header, which starts with the DA).
		3. Discussion on if the rules for DA are for 2, 3 or 4 address frames.
		4. Discussion on what do the NOTEs apply. so, some formatting of the NOTEs was done to help.
		5. Discussion on the changes to the 6th paragraph.
		6. Review new page 13
		7. Return to page 8 and continue the review of proposed changes.
		8. Discussion on Page 7 – End of the note – Keep new text in main line text and clarify note. Add in “signalling and payload …”
		9. The current direction is to complete the clarification on addressing in MESH, and will incorporate in a future version.
		10. Will schedule for November.
	1. **Review Doc 11-829r5** – Mark RISON
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
		2. CID 488 (GEN)
			1. Review Comment
			2. Review proposed changes
			3. Suggestion to add better descriptors to the table changes.
			4. Suggest that we ask for editorial update to include a table number
			5. Clause 6 tables do not have table numbers which is a historical tradition, but we could add in a future revision.
			6. More work to refine the changes and bring back.
		3. CID 238 (ED1)
			1. Review Comment
			2. Review proposed changes
			3. Discussion on use of “/”.
			4. This was marked ready for motion during the Sept Interim:
		4. CID 238 (ED1)
			1. Review comment
			2. Review proposed changes.
			3. See 2170L19 and 2170L29 for context, not also lines 19 and 21 need different specific change.
			4. Proposed resolution: Revised; Make the changes shown under “Proposed changes” for CID 238 in 11-21/0829r3 <<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-03-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>>, which address the issue raised by the commenter.
			5. No objection – Mark Ready for Motion
			6. Two minor additions/corrections were discussed today.
			7. Remove about 5 “RXVECTOR from the TXVECTOR/RXVECTOR
			8. Updated resolution: Revised; Make the changes shown under “Proposed changes” for CID 238 in 11-21/0829r5 <<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>>, which address the issue raised by the commenter.
		5. CID 20 (PHY) - **From the PHY Database:**
			1. Review Comments
			2. Limited discussion
			3. Proposed Change: Change to "have pilots inserted following the steps described in 21.3.10.10 (Pilot subcarriers). The data subcarriers of the VHT-SIG-B field constellation points are mapped to N STS,u space-time streams by the user-specific elements of the first column of the P VHT-LTF matrix"
			4. Proposed Resolution: Accept
			5. Mark Ready for Motion
		6. CID 462 (SEC)
			1. Part of 11-21/816, so not reviewed yet.
		7. CID 477 (ED2)
			1. The specific locations of change are identified.
			2. Proposed to send to reflector to get feedback.
			3. Proposed Resolution: Revised. Make the changes shown under “Proposed changes” for CID 477 in 11-829r4 < <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-04-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx> >, which identify the specific locations where “peer entity” is to be changed to “peer STA”.
			4. \No Objection - Mark Ready for motion – will review any feedback received.
		8. CID 340 (MAC)
			1. Review Comment
			2. Review Proposed Changes
			3. Proposed Resolution: CID 340 (MAC): REVISED (MAC: 2021-10-01 15:57:09Z): Make the changes shown under “Proposed changes” for CID 340 in 11-21/829r4 <<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-04-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>> , which make the last example into a Christmas tree.
			4. No objection – Mark Ready for Motion
		9. CID 324 (ED2)
			1. Review comment
			2. CID 324 (ED2): Attempt to get off-line consensus, before considering.
		10. CID 445 (MAC)
		11. Review Comment
	2. **Ran out of Time.** **– Next meeting Oct 15th.**
	3. **Adjourned 12:00pm**
1. **TGme (REVme) Telecon Friday October 1st, 2021, at 10-12:00 ET**
	1. **Called to order** 10:02am ET by the TG Chair, Michael MONTEMURRO (Huawei).
		1. Introductions of Officers.
			1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
			2. Vice Chair - Mark RISON (Samsung)
			3. Editor – Edward AU (Huawei)
			4. Secretary - Jon ROSDAHL (Qualcomm)
		2. Absent at beginning of call:
			1. Editor - Emily QI (Intel)
	2. **Attendance:**
		1. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Bhandaru, Nehru | Broadcom Corporation |
| 2 | Halasz, David | Morse Micro |
| 3 | Hamilton, Mark | Ruckus/CommScope |
| 4 | Harkins, Daniel | Aruba Networks, Inc. |
| 5 | Joh, Hanjin | KT Corp. |
| 6 | Kim, Youhan | Qualcomm Incorporated |
| 7 | Malinen, Jouni | Qualcomm Incorporated |
| 8 | Montemurro, Michael | Huawei |
| 9 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 10 | RISON, Mark | Samsung Cambridge Solution Centre |
| 11 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 12 | Ward, Lisa | Rohde & Schwarz |
| 13 | Wei, Dong | NXP Semiconductors |
| 14 | YANG, RUI | InterDigital, Inc. |

* + 1. WebEx Attendance not in IMAT:
			1. [V] Yan Xin (Huawei)
			2. [V] Rui Yang, InterDigital
			3. [V] Robert Stacey, Intel
			4. [V] Ming Gan Huawei
			5. [V] Gaurav Patwardhan (HPE)
			6. [V] Emily Qi (Intel)
			7. [V] Solomon Trainin, Qualcomm
			8. [V] Joseph Levy (InterDigital)
			9. Edward Au, Huawei
			10. [V] Stephen McCann, Self
			11. [NV] Hanjin Joh, KT Corp.
	1. **Review agenda:11-21/1572r2:**
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1572-02-000m-sep-nov-teleconference-agendas.docx>
		2. Comment Resolution:
1. CID 21 - Chair
2. Montemurro (Huawei) – CID 594, 116
3. MAC CIDs – Hamilton (Ruckus/Commscope)
4. MAC CIDs – Rison (Samsung)
5. S1G CIDs – Halasz (Morse Micro)
6. 11-21/829 – Rison (Samsung)
	* 1. Change GEN to MAC CIDs for today.
		2. After discussion No objection for proposed Agenda modifications.
	1. **Review Patent Policy and Copyright policy** and Participation Policies.
		1. No issues were noted.
	2. **Editor Report** – Emily QI (Intel)
		1. Most of the roll-in is complete.
		2. They are in the Review stage
		3. Hope to have 802.11ba rolled in by Monday.
		4. No questions – Thanks for their hard work.
	3. **Review doc 11-21/1687r0**
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1687-00-000m-extended-rsn-capabilities-issues-in-ieee-802-11ay-2021.pptx>
		2. Problem Statement:
			1. There is an error in published standard IEEE 802.11ay-2021. In 9.4.2.241 Table 9-321 of 11ay, bit 6 has been assigned to “Protected Announce Support”.
			2. However, in the ANA database (see <https://mentor.ieee.org/802.11/dcn/11/11-11-0270-56-0000-ana-database.xls>  Extended RSN Capabilities tab), bit 6 is assigned to WFA and used by existing 802.11 implementations.
		3. Proposed Solution:
			1. **ANA assigns a different number for 11ay**
			2. This might affect 11ay implementations. Any product with this implementation in the field?
			3. If agreed, REVme will update the draft with the new assignment.
			4. Do we need to revise the published standard IEEE 802.11ay-2021?
			5. **Any other options?**
		4. Discussion
			1. The bit was assigned by ANA to WFA.
			2. The 11ay assigned the bit after the MEC review which is when it normally would have been checked.
			3. We need to correct this and will need to provide a Corrigenda to 11ay.
			4. Regardless, we need to correct the assignment.
			5. This error occurred by the 11ay editor making the assignment without requesting from ANA.
			6. Chair noted that we should prepare a Corrigenda.
			7. Chair suggests that this topic be discussed in the Editor Meeting
		5. ACTION ITEMS #1:
			1. Emily and Edward to ask the Reflector if there are any 11ay implementations that may be affected.
			2. Robert to add an ANA standing item be added to the Editor meeting.
			3. Michael to schedule agenda Time to be scheduled to prepare the Corrigenda PAR for
			4. Jon to prepare a PAR Request for Corrigenda.
	4. **Individual Comment Resolution:**
		1. CID 21 (PHY):
			1. Comment withdrawn by commentor
			2. Mark the comment withdrawn
			3. Proposed resolution: REJECTED - Commenter has withdrawn the comment.
			4. No Objection - Mark Ready for Motion
		2. CID 594 (SEC)
			1. Comment withdrawn by commentor
			2. Mark the comment withdrawn
			3. Proposed resolution: CID 594 (SEC) - REJECTED (SEC: 2021-10-15 16:09:23Z) Commenter has withdrawn the comment.
			4. No Objection - Mark Ready for Motion
	5. **Review doc 11-21/1648r2** – CID 116 – Nehru BHANDARU (Broadcom)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1648-02-000m-cc35-nb-crs-116.docx>
		2. CID 116 (SEC)
			1. Review comment history
			2. Review updated changes
			3. Support was noted for these latest changes.
			4. While not perfect, it is good enough and complete for now.
			5. Concern with the article “the” rather than “a” or “an”. The immediately last message is implied with “the”, so for now that is sufficient.
			6. Change to “in the most recently received valid SAE…”
			7. There is only one SAE Commit message that is valid at any time.
			8. Sometimes Good enough is good enough
			9. Proposed Resolution: Revised incorporate the changes in 11-21/1648r3.
			10. Discussion on what changes are in r3.
			11. Disagreement on the final wording.
			12. Straw poll:
				1. Do you prefer
7. “in the previous”
8. “in the most recently received”
9. Abstain
	* + - 1. Results: 4-6-7-4
			1. Change R3 to have the “in the most recently received” form
			2. Mark Ready for motion and will be run as a separate motion.
	1. **Review MAC CIDs** – Mark HAMILTON (Ruckus/Commscope)
		1. CID 120 (MAC)
			1. Review comment
			2. Review Top-level Table of Contents
			3. Discussion on if there are sub-clause that are strictly S1G topics.
			4. If other use of TWT for example were kept together.
			5. No objection to making a submission to structure this clause more clearly.
			6. Mark Submission Required.
		2. CID 141 (MAC)
			1. Review Comment
			2. See also CID 445, 441 and doc 11-21/829).
			3. Mark Submission Required.
	2. **Review 11-21/829r5** – Mark RISON (Samsung)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
		2. CID 114 (MAC)
			1. Review comment
			2. Discussion on the choice of replacement text.
			3. New text was crafted for the first paragraph.
			4. Concern on the changes being outside the scope of the comment.
			5. The text will need more review, several alternates were identified.
		3. CID 152 (MAC)
			1. Review Comment
			2. Review context – p1674.33 (D0.0)
			3. Proposed Resolution: Accept
			4. No Objection - Mark Ready for motion
		4. CID 170 (MAC)
			1. Review Comment
			2. Proposed Resolution: Accept
			3. Discussion on why the last “Should” is not a “Shall”.
			4. Discussion on if behaviors are already defined and no change is warranted, and we may be ok to remove from Clause 9.
			5. The individual address case should also be checked. Both the Individual and the group address cases need to be described somewhere.
			6. Assign CID to Joseph LEVY and mark Submission Required.
		5. CID 172 (MAC)
			1. Review Comment
			2. Review Proposed Change
			3. Discussion on the need to make the change.
			4. Discussion on if the resulting change would cause existing implementation non-compliant.
			5. Discussion on the QoS operation.
			6. If we need STA to behave a certain way, we should make sure the clear requirements are made and not worry about legacy as much.
			7. Discussion on having clear rules, but changing the wording as described may be problematic.
			8. More work required- Mark Submission Required.
		6. CID 178 (MAC)
			1. Review comment
			2. Discussion on the proposed change, and possible reject reason.
			3. The TXOP can be narrowed, by design, but not necessarily.
			4. Proposed Resolution: Reject – Rejection reason to be crafted off-line and brought for the motion.
			5. ACTION ITEM #2: Mark H and Mark R to work together for creating the Reject rationale for CID 178 (MAC).
			6. No Objection - Mark Ready for motion
	3. **Review doc 11-21/1461r2** – Dave HALASZ (Morse Micro)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1461-02-000m-cids-for-supported-rates.docx>
		2. CID 24 through 35 (MAC)
			1. Review comment quickly.
			2. This was reviewed about one month ago.
			3. Proposed Resolution: CIDs 24-35 (MAC): REVISED (MAC: 2021-10-15 15:36:21Z): Incorporate the changes shown as “Proposed change” in 11-21/1461r2 (https://mentor.ieee.org/802.11/dcn/21/11-21-1461-02-000m-cids-for-supported-rates.docx).
			4. Discussion on some of the resolution final form.
			5. Chair offered those further comments may be made in future Letter ballot.
			6. Concern on changes introduced that may cause implementations to be non-complaint with the resulting standard.
			7. Items marked Mandatory are still Mandatory even if empty.
			8. Question on S1G implication vs all STA cases for rate selectors vs supported rates in frames.
			9. No Objection - Mark Ready for motion
	4. **Return Back to** **misc MAC comment CIDs** - Mark RISON (Samsung)
		1. **agenda item**, for misc MAC comment CIDs
		2. Review Doc 11-21/829r5
		3. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
		4. CID 204 (MAC) and 205 (MAC)
			1. Review Comment
			2. While dealing with tools issues, it was noted this text exists for the QoS STA -> QoS STA transmission " "A QoS STA shall use QoS Data frames for all MSDU transfers to another QoS STA.""
			3. Joe will note this in his research.
			4. Reviewed discussion and proposed changes.
			5. This is possibly correct, But we need to consider existing implementations.
			6. Proposed Resolution: CIDs 204 and 205 (MAC): REVISED (MAC: 2021-10-15 15:58:22Z); Incorporate the changes for CIDs 24 and 25 in <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-06-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>.:
			7. No objection – Mark Ready for Motion
	5. **Adjourned 12:00pm ET.**
10. **TGme (REVme) Telecon Friday October 1st, 2021, at 10-12:00 ET**
	1. **Called to order 10:03am** ET by the TG Chair, Michael MONTEMURRO (Huawei).
		1. Introductions of Officers.
			1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
			2. Vice Chair - Mark RISON (Samsung)
			3. Editor - Emily QI (Intel)
			4. Editor – Edward AU (Huawei)
			5. Secretary - Jon ROSDAHL (Qualcomm)
		2. Absent at beginning of call:
	2. **Attendance:**
		1. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Andersdotter, Amelia | Sky UK Group |
| 2 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 3 | Bhandaru, Nehru | Broadcom Corporation |
| 4 | Coffey, John | Realtek Semiconductor Corp. |
| 5 | Derham, Thomas | Broadcom Corporation |
| 6 | Halasz, David | Morse Micro |
| 7 | Hamilton, Mark | Ruckus/CommScope |
| 8 | Henry, Jerome | Cisco Systems, Inc. |
| 9 | Levy, Joseph | InterDigital, Inc. |
| 10 | Liu, Der-Zheng | Realtek Semiconductor Corp. |
| 11 | Lumbatis, Kurt | CommScope, Inc. |
| 12 | Malinen, Jouni | Qualcomm Incorporated |
| 13 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 14 | Montemurro, Michael | Huawei |
| 15 | NANDAGOPALAN, SAI SHANKAR | Synaptics |
| 16 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 17 | RISON, Mark | Samsung Cambridge Solution Centre |
| 18 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 19 | Torab Jahromi, Payam | Facebook |
| 20 | Wei, Dong | NXP Semiconductors |

* + 1. WebEx Attendance not in IMAT:
			1. Brian Hart
			2. [V] Youhan Kim (Qualcomm)
			3. [V] Al Petrick, (InterDigital)
			4. [V] Kazuyuki Sakoda (Sony)
			5. [V] Xiaogang Chen (Intel)
			6. [V] Lisa Ward - Rohde & Schwarz
			7. [NV] Steve Jones Samsung LSI
			8. [V] Gabor Bajko Mediatek
			9. [V] Osama Aboul-Magd (Huawei)
			10. [V] Emily Qi (Intel)
			11. [V] Rui Yang, InterDigital
			12. [V] Jouni Malinen (Qualcomm)
			13. [V] Ming Gan Huawei
	1. **Review agenda:11-21/1572r3:**
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1572-03-000m-sep-nov-teleconference-agendas.docx>
		2. Comment Resolution:
		3. Document 11-21/1448 – Chen (Intel)
		4. Document 11-21/xxx – Qi (Intel) /Sakoda (Sony)
		5. Document 11-21/965 – Hart (Cisco) – PHY CIDs 13, 14, 15, and 527
		6. CID 98 – Coffey (Realtek)
		7. After discussion No objection for proposed Agenda, but not all presenters were on the start of the call. We will skip items if the presenter is not present when we get to that item on the agenda.
	2. **Review Patent Policy and Copyright policy** and Participation Policies.
		1. No issues were noted.
	3. **Editor Report** – Emily QI (Intel)
		1. D0.4 includes 11ba and comment resolution in Aug and Sept.
			1. Ready to post.
		2. We have crossed the 6000-page barrier.
		3. Figures have all been fixed up.
		4. Conflict with bits in 11ay, we did not receive any concerns.
		5. Look to get Corrigenda PAR sooner than later prepared.
	4. **Review doc 11-21/1689r0** – Kaz SAKODA (Sony) - Emily QI (Intl)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1689-00-000m-revme-self-protected-action-frame-comment-resolution.docx>
		2. Abstract: This submission contains comments on REVmd initial SA ballot, relating to Self-protected action frames and suggested resolution to the following comments: CID 125, 126, 127, 128, and 129.
		3. CID 125, 126, 127, 128, and 129 (MAC)
			1. As all the CIDs are similar start with the discussion.
			2. Review submission discussion.
			3. Review proposed changes.
			4. Question on Table 9-71 to ensure only one element in Frame.
			5. Better wording on encrypting Elements – rather than the whole frame should be considered.
				1. We could add a note to end of Table 9-71
			6. Proposed Resolution: CIDs 125-129 (MAC): REVISED (MAC: 2021-10-18 14:28:42Z): Incorporate the changes shown in 11-21/1689r1 (https://mentor.ieee.org/802.11/dcn/21/11-21-1689-01-000m-revme-self-protected-action-frame-comment-resolution.docx).
			7. Kaz to post announcement when R1 is on Mentor to the reflector.
			8. No Objection – Mark Ready for Motion
	5. Review CID 98 – Sean COFFEY (Realtek)
		1. CID 98 (PHY)
			1. Review comment
			2. Review proposed change
			3. See context – p3204.50 and 3208.20. (d0.0)
				1. Note the database has indicates 2304, which is incorrect. Also 3208.20 should be 3208.19.
			4. Proposed resolution: Revised; at 3204.57 add the qualifier "Except where otherwise noted," before "Each output port".

At 3208.20, change "any signal" to "any signal, however received,",

and add at end of that paragraph "The requirements of this paragraph apply for all received signals; in particular, they are not limited to configurations in which each output port of a transmitting STA are connected through a cable to each input port of the receiving STA."

* + - 1. Request to split the paragraph at 3204.57 into two different paragraphs and indicate the “otherwise noted” specifically.
			2. Other “Each output port” instances exist, do they need to be changed also?
				1. This CID is specific comment to this citation. Take them as separate comments to keep resolutions succinct and complete.
				2. Some of the other locations may not need to be changed, so let’s not confuse with this CID.
			3. Discussion on the sensitivity is measured over the air or in a test environment (Conducted configuration).
			4. Updated Proposed Resolution: Revised. At 3204.53, replace the paragraph with:

“For tests in this subclause, the input levels are measured at the antenna connector and are referenced as the average power per receive antenna.

For tests in Subclauses 21.3.18.1, 21.3.18.2, and 21.3.18.3, the number of spatial streams under test shall be equal to the number of utilized transmitting STA antenna (output) ports and also equal to the number of utilized device under test input ports. Except where otherwise noted, each output port of the transmitting STA shall be connected through a cable to one input port of the device under test.””

* + - 1. The Goal is to complete in November, so we will mark this ready for motion and a separate motion will be prepared.
			2. No objection – Mark Ready for Motion – Separate Motion Tab.
	1. **Review doc 11-21/1683r0** – Sean COFFEY (Realtek)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1683-00-000m-revme-cc35-cid-283.docx>
		2. Abstract: This document contains a proposed resolution for CID 283 from TGme CC35 on IEEE P802.11-REVme/D0.0.
		3. CID 283 (PHY)
			1. Review comment
			2. Review Proposed changes.
			3. Discussion on the form of the new text relative to existing text.
			4. Proposed Resolution: Revised. At (D0.0) 2944.58, add new subclause 18.3.4a as follows, and renumber subclauses:

"18.3.4a PHY transmit procedure

The transmit procedure for Clause 18 (Extended Rate PHY (ERP) specification) when TXVECTOR parameter FORMAT is equal to NON\_HT and TXVECTOR parameter NON\_HT\_MODULATION is ERP-DSSS or ERP-CCK is described in 15.3.6 (Transmit PHY) or 16.2.5 (Transmit PHY), respectively.

The transmit procedure and state machine when TXVECTOR parameter FORMAT is equal to NON\_HT and TXVECTOR parameter NON\_HT\_MODULATION is ERP-OFDM is described in 17.3.11 (Transmit PHY), except for the signal extension (refer to 18.3.2.4 (ERP-OFDM PPDU format)).

* + - 1. No objection – Mark Ready for motion.
	1. **CID 342 (PHY)**
		1. Review comment
		2. Figure 23-53—PHY Receive state machine.
		3. The figure in 21-3-7 p3214 is similar. (S1G)
		4. Need more thought offline.
		5. ACTION ITEM #3 – Mark RISON – Reach out to S1G SME to comment on CID 324 (PHY).
		6. There are a few arrow heads in these figures that should be corrected also, but we will address those issue during the letter ballot.
	2. **Review Mark RISON CIDS**
		1. Review doc 11-21/829r5
		2. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
		3. CID 219 (MAC)
			1. Review Comment
			2. Review submission Discussion.
			3. Proposed Resolution: CID 219 (MAC): ACCEPTED (MAC: 2021-10-18 15:35:30Z)
			4. No objection – Mark Ready for Motion
		4. CID 22 (MAC)
			1. Review Comment
			2. Proposed Resolution: REVISED (MAC: 2021-10-18 15:39:31Z): Incorporate the changes shown in 11-21/0829r5 (<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>) for CID 22, which clarify that the Operating Extension Identifier field is an arbitrary value above 200 (or 233 for 6 GHz operation) that may be used more than once within the Country element.
			3. No objection – Mark Ready for Motion
		5. CID 231 (PHY) (Direct from Database)
			1. Review Comment
			2. Discussion on sentence looked at for deletion.
			3. Changes to this clause may affect both AP behaviour and the STA behaviour and more discussion will need to be done.
			4. More work needed, to clarify the AP behavior requirements.
		6. CID 22 (MAC)
			1. P991L56 – The Triplet field nomenclature is not correct in the r5, so we will update r6 to have the correct verbiage.
			2. CID 22 (MAC): Expect an r6 to address Youhan's comment and leave as ready for motion.'
			3. Updated Resolution: REVISED (MAC: 2021-10-18 15:39:31Z): Incorporate the changes shown in 11-21/0829r6 (<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-06-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>) for CID 22, which clarify that the Operating Extension Identifier field is an arbitrary value above 200 (or 233 for 6 GHz operation) that may be used more than once within the Country element.
			4. Mark Ready for Motion – pending posting of R6
	3. **Review doc 11-21/1448r2** - Xiaogang Chen (Intel)
		1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1448-02-000m-psd-floor-of-tx-mask.docx>
		2. Abstract: This document proposes to change the PSD floor in Tx mask of 11ax/ac/n/a in 5/6GHz such that the PSD floor of 11be is aligned with the legacy WiFi amendments.
		3. No comments came in from request to reflector.
		4. Review history of submission.
		5. Review Submission.
		6. This was presented during the 2021 Sept 802W Electronic Interim.
			1. He was asked to find comments from the Reflector, he did.
		7. Minor Editorial – Missing space between 2.4 GHz, in a couple locations and need word “band” in one location.
		8. Not associated with a CID, but we will motion this document next Monday.
		9. No objection to preparing a motion for next week.
	4. **Plan for Next Week**
		1. Motion all CIDs marked ready for motion through Oct 18.
		2. Also, doc 11-21/1448 will also be motioned.
	5. **Next Telecon Friday Oct 22.**
	6. **Adjourned 12:00 ET**

**References:**

**October 1, 2021:**

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1572-01-000m-sep-nov-teleconference-agendas.docx><https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>
2. <https://mentor.ieee.org/802.11/dcn/21/11-21-0816-02-000m-on-a-msdu-addressing.docx>
3. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
4. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-03-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
5. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
6. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-04-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>

**October 15, 2021:**

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1572-02-000m-sep-nov-teleconference-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/21/11-21-1687-00-000m-extended-rsn-capabilities-issues-in-ieee-802-11ay-2021.pptx>
3. <https://mentor.ieee.org/802.11/dcn/11/11-11-0270-56-0000-ana-database.xls>
4. <https://mentor.ieee.org/802.11/dcn/21/11-21-1648-02-000m-cc35-nb-crs-116.docx>
5. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
6. <https://mentor.ieee.org/802.11/dcn/21/11-21-1461-02-000m-cids-for-supported-rates.docx>
7. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
8. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-06-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>

**October 18, 2021:**

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1572-03-000m-sep-nov-teleconference-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/21/11-21-1689-00-000m-revme-self-protected-action-frame-comment-resolution.docx>
3. <https://mentor.ieee.org/802.11/dcn/21/11-21-1683-00-000m-revme-cc35-cid-283.docx>
4. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
5. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-05-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
6. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-06-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
7. <https://mentor.ieee.org/802.11/dcn/21/11-21-1448-02-000m-psd-floor-of-tx-mask.docx>