IEEE P802.11
Wireless LANs

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| Telecon Minutes for REVme - February |
| Date: 2022-02-25 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
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|  |  |  |  |  |

Abstract

Telecon Minutes for TGme (REVme) for February

R0: Minutes for February7, 2022

R1: Minutes for February 14, 2022, added

R2: Minutes for February 25, 2022, added.

1. **TGme (REVme) Telecon –Monday, February 07, 2022 at 10:00-12:00 ET**
	1. **Called to order** 10:02 am 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. Secretary - Jon ROSDAHL (Qualcomm)
		2. Absent:
			1. Editor – Edward AU (Huawei)
	2. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Andersdotter, Amelia | Sky UK Group |
| 2 | Asterjadhi, Alfred | Qualcomm Incorporated |
| 3 | Coffey, John | Realtek Semiconductor Corp. |
| 4 | Das, Subir | Peraton Labs |
| 5 | Derham, Thomas | Broadcom Corporation |
| 6 | Halasz, David | Morse Micro |
| 7 | Hamilton, Mark | Ruckus/CommScope |
| 8 | Kim, Youhan | Qualcomm Incorporated |
| 9 | Kneckt, Jarkko | Apple, Inc. |
| 10 | Levy, Joseph | InterDigital, Inc. |
| 11 | Lumbatis, Kurt | CommScope, Inc. |
| 12 | Malinen, Jouni | Qualcomm Incorporated |
| 13 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 14 | Patil, Abhishek | Qualcomm Incorporated |
| 15 | Petrick, Albert | InterDigital, Inc. |
| 16 | Qi, Emily | Intel Corporation |
| 17 | RISON, Mark | Samsung Cambridge Solution Centre |
| 18 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 19 | Smith, Graham | SR Technologies |
| 20 | Torab Jahromi, Payam | Facebook |
| 21 | VIGER, Pascal | Canon Research Centre France |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. **See slides 4-19 in** <https://mentor.ieee.org/802.11/dcn/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>
		2. No issues were noted.
	2. **Review agenda**:11-22/211r1:
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0211-01-000m-january-march-teleconference-agenda.docx>
		2. **The draft agenda for the 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/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>

d.**Agenda Approval**

2.       **Editor report** – Emily QI/Edward AU

3.       **Comment resolution and motions**

1. **Monday January 31, 2022 – 10am – noon Eastern**
	1. Comment resolution
2. **Monday February 7, 2021 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 1218 – Hamilton (Rukus/Commscope)
		2. MBSSID CIDs – document 11-22/0116 – Patil (Qualcomm)
		3. Co-hosted BSSID – document 11-22/0082 – Patil (Qualcomm)
3. **Monday February 14, 2021 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 1678 – Rison (Samsung)
		2. CID 1622 – Hamilton (Samsung)
		3. ED2 CIDs – 11-22/0175r1 – Au (Huawei)
		4. ED2 CIDs – 11-22/0218r0 – Au (Huawei)
4. **Friday February 25, 2021 – 10am – noon Eastern**
	1. Comment resolution (priority to Security-related CIDs)
5. **Monday February 28, 2021 – 10am – noon Eastern**
	1. Motions
		1. document 11-22/0056r4 (slides x – y)
	2. Comment resolution

5.       **AOB**

6. **Adjourn**

* + 1. Review Agenda –
			1. Changes to the Agenda:

a. MBSSID CIDs – document 11-22/0116 – Patil (Qualcomm)

b. CIDs in clause 26.2.2 – document 11-22/0274 – Patil (Qualcomm)

c. CID 1006 – document 11-22/0275 – Patil (Qualcomm)

d. CID 2305 – document 11-22/0263 – McCann (Huawei)

* + - 1. Any Extra time to go through review/discuss MAC comments.
		1. Add PHY Discuss/Review to next week’s agenda.
		2. Approve modified agenda without objection
	1. **Editor Report** – Emily QI (Intel)
		1. Hope to have 1.1 ready for next week.
	2. **Review document 11-22/0116r1 - MBSSID CIDs** – Abhi PATIL (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0116-01-000m-lb258-resolution-for-cids-related-to-multiple-bssid-set.docx>
		2. CID 1003 (MAC)
			1. Review updated changes in the submission.
			2. Discuss the number of BSSIDs that can be referenced.
			3. Proposed Resolution: CID 1003 (MAC): REVISED (MAC: 2022-02-07 15:12:49Z): Delete the NOTE at 1355.21: "NOTE 1—1 ≤ n ≤ 8 since the BSSID Index field in 9.4.2.73 (Multiple BSSID-Index element) indicates the number of BSSIDs in a multiple BSSID set."
			4. No objection – Mark Ready for Motion
		3. CID 1004 (MAC)
			1. Review comment
			2. Review updated proposed changes in the submission.
			3. Update on page 2 to clarify sentence – see R2.
			4. Correct BSS -> BSSID
			5. Corrected TGme Editor instructions on bottom of page 2.
			6. Proposed Resolution: CID 1004 (MAC): REVISED (MAC: 2022-02-07 15:23:54Z): Incorporate the changes in 11-22/0116r2 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0116-02-000m-lb258-resolution-for-cids-related-to-multiple-bssid-set.docx>) indicated with "[1004]".
			7. No Objection – Mark Ready for Motion
	3. **Review document 11-22/0274r0** - **CIDs in clause 26.2.2** - Abhi PATIL (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0274-00-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>
		2. CID 1023 (MAC)
			1. Review comment
			2. Discuss the value of having the redline available for editor reference.
			3. Concern on not removing the identified conflict.
			4. Modification made to “The BSS color is…” Tag with “(1023)”
			5. Proposed Resolution: CID 1023 (MAC): REVISED (MAC: 2022-02-07 15:29:40Z): Incorporate the changes in 11-22/0274r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0274-01-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>) indicated with "[1023]".
			6. No objection – Mark Ready for Motion
		3. CID 1021 (MAC)
			1. Review comment
			2. Proposed Resolution: CID 1021 (MAC): REVISED (MAC: 2022-02-07 15:35:46Z): Incorporate the changes in 11-22/0274r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0274-01-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>) indicated with "[1021]", which aligns these locations by removing the extra text in the first bullet of the next paragraph.
			3. No objection – Mark Ready for Motion
		4. CID 1022 (MAC)
			1. Review comment
			2. Review discussion and context of the comment and cited text.
			3. Minor change – R1 will be posted to mentor.
			4. Proposed Resolution: CID 1022 (MAC): REVISED (MAC: 2022-02-07 15:40:58Z): Incorporate the changes in 11-22/0274r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0274-01-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>) indicated with "[1022]", which makes the requested change and also adds a NOTE that an AP or STA starting an IBSS or mesh doesn't select color 0. Note to EDITOR, the Proposed Change overlaps the changes for CID 1023, as shown in 11-22/0274r1.
			5. No Objection – Mark Ready for Motion
	4. **Review doc 11-22/275r0 - CID 1006** – Abhi PATIL (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0275-00-000m-lb258-resolution-for-cid-1006.docx>
		2. CID 1006 (MAC)
			1. Review comment
			2. Indicating an element is “last” is a problem for future element additions.
			3. An R1 will be posted to mentor
			4. Proposed Resolution: CID 1006 (MAC): REVISED (MAC: 2022-02-07 15:45:11Z): Incorporate the changes in 11-22/0275r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0275-01-000m-lb258-resolution-for-cid-1006.docx>), which performs the requested deletion and fixes typos in the first paragraph of the subclause.
			5. No Objection – Mark Ready for Motion
	5. **Return to (Document: 11-22/0274r1) –** Abhi PATIL (Qualcomm)
		1. CID 1022 (MAC)
			1. Question on if the change was needed to indicate COLOR is 0.
			2. Concern that symmetry is not there.
			3. Update to resolution: CID 1022 (MAC): REVISED (MAC: 2022-02-07 15:40:58Z): Incorporate the changes in 11-22/0274r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0274-01-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>) indicated with "[1022]", which adds a NOTE that an AP or STA starting a BSS doesn't select color 0. Note to the commenter, for an intra-BSS classification, the BSS color must match the current BSS, and hence can never be zero (without the need for stating so).
			4. No objection – Mark Ready for Motion
	6. **Review doc 11-22/263r0** – Stephen MCCANN (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0263-00-000m-proposed-comment-resolution-for-cid-2305.docx>
		2. CID 2305 (ED1)
			1. Review Comment
			2. New R1 will be posted to mentor.
			3. Proposed Resolution: CID 2305 (ED1): Incorporate the changes in 11-22/0263r1.
			4. No Objection – Mark Ready for Motion
	7. **General update to the group:**
		1. Abhi's updated documents: doc 11-22/0116r2, 11-22/0274r1 and 11-22/0275r1 are posted to mentor.
	8. **MAC AdHoc Comments** – Review – Mark HAMILTON (Ruckus/CommScope)
		1. CID 1461 (MAC)
			1. Review comment
			2. Proposed resolution: Accept
			3. No Objection – Mark Ready for Motion
		2. CID 1359 (MAC)
			1. Review comment
			2. Question on why not leave 11ay cross reference.
			3. All NDP CMAC PPDU reference have been removed in general.
			4. The PHY clauses have the definitions.
			5. Discussion on just removing it.
			6. STRAW POLL: Should we Accept or Revise (add a Note) for CID 1359?
			7. Results: Accept: 6 Revise: 2 Abstain: 5
			8. Proposed Resolution: Accept
			9. Mark Ready for Motion – separate motion to be run.
		3. CID 1625 (MAC)
			1. Review comment
			2. Proposed resolution: Revised; Add the comma as suggested and delete the comma following the “by S1G relays”.
			3. No objection – Mark Ready for Motion.
		4. CID 1652 (MAC)
			1. Review comment
			2. Proposed Resolution: Accepted
			3. The sentence has too many negatives, would it be something to update in the future with more positive language if possible.
			4. No objection – Mark Ready for Motion
		5. CID 1892 (MAC)
			1. Review comment
			2. Proposed Resolution: Accepted
			3. No objection – Mark Ready for Motion
		6. CID 1874 (MAC)
			1. Review comment
			2. Proposed Resolution: Accepted; Note to Editor: This change is adding A-MSDU to the lists (3 times).
			3. No objection – Mark Ready for Motion
	9. **MAC AdHoc CIDS: Discuss** – Mark HAMILTON (Ruckus/CommScope)
		1. CID 2207 (MAC)
			1. CID was deferred in the past.
			2. Review comment
			3. There are about 63 instances similar statements.
			4. Assign to Osama AboulMagd and mark Submission Required.
		2. CID 1479 (MAC)
			1. Review comment
			2. Discussion on how to limit the size of the Beacon, and if 1536 is the right answer, or some other number, of if no statement is necessary.
			3. Discussion on what is allowed vs what should be constrained.
			4. Discussion on the power savings that one longer beacon can be better in some cases.
			5. STRAW POLL: Do you agree with resolving CID 1479 by:

a) Adding the proposed note.

b) adding a modified note.

c) rejecting the comment.

d) abstain

* + - 1. Results of Straw Poll: 2-3-5-7
			2. ACTION ITEM: Mark RISON to start a discussion on the 802.11 reflector about the size of Beacon frames.
		1. CID 1532 (MAC)
			1. Review comment
			2. Proposed Resolution: Accepted
			3. No objection – Mark Ready for motion
		2. CID 1692 (MAC)
			1. Review comment
			2. Discussion on value of changing the name.
			3. Proposed Resolution: Accepted.
			4. No objection – Mark Ready for motion
		3. CID 1780 (MAC)
			1. Review comment
			2. Similar to 1781 (MAC) but with different proposed change.
			3. Easier to “accept” CID 1781.
			4. Removing “REFUSED” has about 28 instances that would need to be checked.
			5. Mark this Submission Required – Assign to Mark RISON.
			6. No objection to the direction to follow 1780, and 1781 would be a revised as well.
	1. **AOB**
		1. none
	2. **Adjourn 11:56am ET**
1. **TGme (REVme) Telecon –Monday, February 14, 2022, at 10:00-12:00 ET**
	1. **Called to order** 10:02 am 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. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Andersdotter, Amelia | Sky UK Group |
| 2 | Au, Kwok Shum (Edward) | Huawei Technologies Co., Ltd |
| 3 | Bajko, Gabor | MediaTek Inc. |
| 4 | Coffey, John | Realtek Semiconductor Corp. |
| 5 | Das, Subir | Peraton Labs |
| 6 | Halasz, David | Morse Micro |
| 7 | Hamilton, Mark | Ruckus/CommScope |
| 8 | Harkins, Daniel | Aruba Networks, Inc. |
| 9 | Kakani, Naveen | Qualcomm Incorporated |
| 10 | Kim, Youhan | Qualcomm Incorporated |
| 11 | Kneckt, Jarkko | Apple, Inc. |
| 12 | Levy, Joseph | InterDigital, Inc. |
| 13 | Petrick, Albert | InterDigital, Inc. |
| 14 | RISON, Mark | Samsung Cambridge Solution Centre |
| 15 | Rolfe, Benjamin | Blind Creek Associates |
| 16 | Rosdahl, Jon | Qualcomm Technologies, Inc. |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. **See slides 4-19 in** <https://mentor.ieee.org/802.11/dcn/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>
		2. No issues were noted.
	2. **General Announcements:**
		1. Updated the TGme Website to list the Comment files.
		2. April AdHoc discussion will be on Feb 25 and any needed motions will be on Feb 28th.
	3. **Review agenda**:11-22/211r2:
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0211-02-000m-january-march-teleconference-agenda.docx>
		2. **The draft agenda for the 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/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>

d.**Agenda Approval**

2.       **Editor report** – Emily QI/Edward AU

3.       **Comment resolution and motions**

1. **Monday January 31, 2022 – 10am – noon Eastern**
	1. Comment resolution
2. **Monday February 7, 2021 – 10am – noon Eastern**
	1. Comment resolution
3. **Monday February 14, 2021 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 1678 – Mark RISON (Samsung)
		2. CID 1622 – Mark HAMILTON (Ruckus/Commscope)
		3. ED2 CIDs – 11-22/0176r1 – Edward AU (Huawei)
		4. ED2 CIDs – 11-22/0218r0 – Edward AU (Huawei)
		5. PHY CIDS – RISON (Samsung)
4. **Friday February 25, 2021 – 10am – noon Eastern**
	1. Comment resolution (priority to Security-related CIDs)
5. **Monday February 28, 2021 – 10am – noon Eastern**
	1. Motions
		1. document 11-22/0056r4 (slides x – y)
	2. Comment resolution

5.       **AOB**

6. **Adjourn**

* + 1. Review Agenda –
			1. Changes to the Agenda:
				1. Add PHY Discuss/Review to agenda.
				2. Change order to put Mark RISON together.
		2. Approve modified agenda without objection
	1. **Editor Report** – Emily QI (Intel)
		1. Completed updates based on January motions and have the D1.1 in review to check the updates on the approved resolution changes.
	2. **CID 1622 -** Mark HAMILTON (Ruckus/Commscope)
		1. Review comment
		2. No consensus on the possible global change.
		3. Proposed Resolution: CID 1622 (MAC): REJECTED (MAC: 2022-02-14 15:03:45Z): The comment has had considerable discussion, and no consensus can be reached. Some concerns with a global change are that in some situations the element should not/is not present (as suggested by the commenter), but in other situations it seems that the element is left as an option for the implementation. Hence, it would require a case-by-case check of the cited uses, to add appropriate text in each occurrence. It is noted that the usage "xxx is optionally present if …" is another situation to be considered case-by-case.
		4. Discussion: we may need a specific comment on the specific cases.
		5. No objection – Mark Ready for Motion
	3. **Review doc 11-22/176r1** – Editor Comments – Edward AU (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0176-01-000m-proposed-resolution-for-revme-lb258-comments.docx>
		2. Continue with the review of the submission.
		3. CID 2351 (ED2)
			1. Review comment
			2. Review discussion in submission.
			3. The comment is really not editorial comment, but we can discuss today.
			4. Proposed resolution: Accepted.
			5. No Objection – Mark Ready for Motion.
		4. CID 2263 (ED2)
			1. Review comment
			2. Review discussion in submission.
			3. Review updated changes
			4. Editorial fix on line 23 also to be made.
			5. Proposed Resolution: Revised.

At 3534.28 in D1.0, replace “PPDU” with “PPDUs”.

At 3534.38 in D1.0, replace “HT PPDUs of this format” with “PPDUs of this format”.

* + - 1. No Objection – Mark Ready for Motion
		1. CID 1134 (ED2)
			1. Review Comment
			2. WUR uses 20 MHZ channel bandwidth only.
			3. Proposed Resolution: CID 1134 (ED2): Rejected. The WUR Basic PPDU format is defined for the 20 MHz channel bandwidth only. The proposed change suggested by the commenter may imply that the WUR Basic PPDU format applies also for other bandwidths.
			4. No Objection -Mark Ready for Motion
		2. CID 1263 (ED2)
			1. Review Comment
			2. Proposed Resolution: Revised.

Replace “equals true” with “is true” at 3186.11, 3186.20, and 3186.24 in D1.0.

Replace “equals false” with “is false” at 3186.16 in D1.0.

* + - 1. Discussion on the value of “is true” vs “is equal to true”.
			2. We would need a comment on specific comments to change other locations for “is equal to” when “is” may be enough.
			3. The Style guidelines may need to be updated to help future amendments.
			4. No Objection – Mark Ready for Motion
	1. **Review doc 11-22/218r0** – Editor CIDs – Edward AU (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0218-00-000m-proposed-resolution-for-revme-lb258-comments-part-2.docx>
		2. CID 1132 (ED2)
			1. Review comment
			2. Review two possible options for resolution.
			3. Option two - replace “measure” with “measurement”
			4. Measure is used in some other 802 wireless standards, but maybe a traditional use since 1995.
			5. No objection to Option 2.
			6. Proposed Resolution: Revise, replace “measure” with “measurement” at 4882.58 and the following additional 20 locations: 3417.62, 3418.14, 3439.38, 3468.28, 3473.58, 3474.18, 3508.12, 3536.42, 3616.5, 3642.11, 3653.12, 3695.40, 3825.11, 3877.49, 4012.57, 4042.18, 4064.56, 4296.22, 4296.33, and 4548.24 in D1.0.
			7. No Objection – Mark Ready for Motion
		3. CID 1288 (ED2)
			1. Review Comment.
			2. Proposed resolution: Revised.

At 5653.51 in D1.0, replace “OCTET-STRING” with “OCTET STRING”.

At 3117.43, 3255.6, 3258.2, and 3258.63 in D1.0, replace “octet-string” with “octet string”.

* + - 1. No Objection – Mark Ready for Motion
		1. CID 1586 (ED2)
			1. Review Comment
			2. Review discussion in submission.
			3. Discussion – values of the different options.
			4. Option 3 would be to reject and not make a change.
			5. Straw Poll: Would you support Option 1 or Option 3?
				1. Results: Option 1: 3 / Option 2: 5 /DNV: 7
			6. Proposed Resolution: Rejected – rationale to be created later (prior to motion).
			7. Request to move to a separate tab for motion.
			8. Mark Ready for Motion
		2. CID 1547 (ED2)
			1. Review comment
			2. Review discussion in submission.
			3. Discussion – What is the value in making the change of “note that” to “note”?
			4. From the Style Manual, the “note that” is normative, and “NOTE should be in a separate paragraph.
			5. Concern of changing a Normative statement to informative Notes.
			6. Option 3 may need to be created, as the cited location actually is proper usage of the “note that” and no change is warranted.
			7. Proposed Resolution: Rejected; The sentence is technically correct and also it is consistent with the 2021 IEEE SA Standards Style Manual.
			8. Discussion on if this really is normative or not.
			9. No volunteers for Option 2
			10. Straw poll: Would you support Option 1 or Option 3?
				1. Results: Option 1: 4 / Option 2: 8 /DNV: 6
			11. No Objection Mark Ready for Motion
		3. CID 1027 (ED2)
			1. Not ready for today.
		4. CID 1296 (ED2)
			1. Review Comment
			2. Review discussion in submission.
			3. Clause 4 has 20 instances of Station Service and is less changes than over 300 instances of “SS” as spatial stream.
			4. Discussed the changes that would need to be made to be unambiguous.
			5. Concern with possible upper layers may use “SS” in 802.1 specifications. (802.1Q or 802.1AC), but none found in quick searches.
			6. Proposed Resolution: Revised. Replace “SS” with “station service” in clause 4.

In clause 3.4, change the definition of abbreviation of SS from “station service” with “spatial stream”.

Change “station service (SS)” with “station service” twice in D1.0.;

* + - 1. ACTION ITEM: Edward AU – Will update the resolution with the specific location numbers for CID 1296 (ED2).
			2. No objection – Mark Ready for Motion
	1. **CID 1678 (MAC)** – Mark RISON (Samsung)
		1. We have started a discussion on this topic, but not ready for today.
		2. Target the March Plenary week for discussion.
	2. **Discuss PHY CIDs –** Mark RISON (Samsung)
		1. CID 1471 (PHY)
			1. Review comment
			2. Discussion on the use of “Interim” usage.
			3. The Mask has two components, and the usage of “interim spectral mask” has value in determining the full mask.
			4. A more formal definition may be needed.
			5. The usage is only in this clause, and so it may not need a new definition that is more global.
			6. “interim” or maybe “intermediate”, but it is not the same as “intermediate IF” so we may not want to use this direction.
			7. Assign to Youhan KIM (Qualcomm).
			8. The word or definition would need to be unambiguous in the usage.
		2. CID 1659 (PHY)
			1. Review Comment
			2. Submission required – no target date for presentation.
		3. CID 1641 (PHY)
			1. Review comment
			2. ACTION ITEM: Mark RISON to poll the .11 reflector on possible deprecation of MBSS.
		4. CID 1640 (PHY)
			1. Review Comment
			2. ACTION ITEM: Mark RISON to poll the .11 reflector on possible deprecation of PBSS.
		5. CID 1619 (PHY)
			1. Review Comment
			2. Review context of cited locations. (p938)
			3. Discussion on if there is a need to make a change or not.
			4. Change of the word “recommended” to “ought” is not necessarily the right change, but some other word change may be in order.
			5. The use of “should” is something the standard is indicating, but the “recommended” is for communication of one STA to another STA.
			6. The direction is to review the specific locations and bring a submission.
			7. Assigned to Mark RISON – Submission required.
	3. **Review PHY CIDs** Mark RISON (Samsung)
		1. CID 1382 (PHY)
			1. Review Comment
			2. Discussion on what is being done and if “rekeying to renew” is needed.
			3. Keys may be rekeyed, but a conglomeration of data gets renewed.
			4. In 12.6.21 RSNA rekeying has a use of “renew” that may be ok to change from “renew”, but in general each instance would need to be checked.
			5. Discussion on the change value and this CID in general.
			6. Renewal is not just rekeying, there are other components of the process to renew the conglomeration.
			7. “Renewed by rekeying” is not a valid concept.
			8. Question on why changing “RSN SA” to “SA”? a proposal was made to “... RSN keys expired, and the SA could not be renewed."
			9. Move the CID to SEC.
	4. **Adjourned at 11:19pm ET**
1. **TGme (REVme) Telecon –Friday, February 25, 2022, at 10:00-12:00 ET**
	1. **Called to order** 10:03 am 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. Secretary - Jon ROSDAHL (Qualcomm)
			5. Will Join after the first hour:
				1. Editor – Edward AU (Huawei)
	2. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Andersdotter, Amelia | Sky UK Group |
| 2 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 3 | Coffey, John | Realtek Semiconductor Corp. |
| 4 | Halasz, David | Morse Micro |
| 5 | Hamilton, Mark | Ruckus/CommScope |
| 6 | Harkins, Daniel | Aruba Networks, Inc. |
| 7 | Huang, Po-Kai | Intel Corporation |
| 8 | Kim, Youhan | Qualcomm Incorporated |
| 9 | Kneckt, Jarkko | Apple, Inc. |
| 10 | Levy, Joseph | InterDigital, Inc. |
| 11 | Malinen, Jouni | Qualcomm Incorporated |
| 12 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 13 | Qi, Emily | Intel Corporation |
| 14 | RISON, Mark | Samsung Cambridge Solution Centre |
| 15 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 16 | Smith, Graham | SR Technologies |
| 17 | Stacey, Robert | Intel Corporation |
| 18 | Wei, Dong | NXP Semiconductors |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. **See slides 4-19 in** <https://mentor.ieee.org/802.11/dcn/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>
		2. No issues were noted.
	2. **General Announcements:**
		1. Updated the TGme Website to list the Comment files.
		2. April AdHoc discussion will be on Feb 25 and any needed motions will be on Feb 28th.
	3. **Review agenda**:11-22/211r4:
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0211-04-000m-january-march-teleconference-agenda.docx>
		2. **The draft agenda for the 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/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>

d.**Agenda Approval**

2.       **Editor report** – Emily QI/Edward AU

3.       **Comment resolution and motions**

1. **Monday January 31, 2022 – 10am – noon Eastern**
	1. Comment resolution
2. **Monday February 7, 2021 – 10am – noon Eastern**
	1. Comment resolution
3. **Monday February 14, 2021 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 1678 – Mark RISON (Samsung)
		2. CID 1622 – Mark HAMILTON (Ruckus/Commscope)
		3. ED2 CIDs – 11-22/0176r1 – Edward AU (Huawei)
		4. ED2 CIDs – 11-22/0218r0 – Edward AU (Huawei)
		5. PHY CIDS – RISON (Samsung)
4. **Friday February 25, 2021 – 10am – noon Eastern**
	1. Comment resolution (priority to Security-related CIDs)

a. CID 2249 – 11-22/336 – Shilo (TRC)

b. CID 1178 – 11-22/238 – Huang (Huawei)

c. CIDs 2335 & 2344 – Li (Samsung)

d. CIDs 2310, 2315 & 2316 – 11-22/311 McCann (Huawei)

e. CID 2350 – 11-22/282 – Xin (Huawei)

1. **Monday February 28, 2021 – 10am – noon Eastern**
	1. Motions
		1. document 11-22/0056r4 (slides x – y)
	2. Comment resolution

5.       **AOB**

6. **Adjourn**

* + 1. Review Agenda –
		2. Approve modified agenda without objection
	1. **Editor Report** – Emily QI (Intel)
		1. D1.1 has been posted to members area
		2. Thanks to review team for review of changes.
		3. Editor 1 Adhoc – 11-22/73r3 which has Editor 1 comments.
			1. 18 trivial comments, offline review, and will just implement if no objection.
			2. Plan to add to March Motions.
	2. Announcement
		1. The 802 website for REVme has been updated to provide latest link to comment resolutions files.
	3. Comment Resolution:
		1. CID 1041 (MAC)
			1. Comment has been withdrawn.
			2. Proposed Resolution: CID 1041 (MAC): REJECTED (MAC: 2022-02-25 15:10:44Z): This comment has been withdrawn by the commenter.
			3. Mark Ready for motion.
	4. **Review Doc 11-22/0305r0 adding OWE** – Dan HARKINS (HPE)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0305-00-000m-adding-owe.docx>
		2. CID 1084 (SEC)
			1. Review Comment
			2. Review discussion in submission.
			3. Table 9-188 discussion. – Need to replace the reference to the RFC to how the definition is defined in 12.7.1.6.2. Similar to other AKM descriptions.
			4. 12.6.10 – question on pre-authentication usage.
				1. OWE does not use pre-Auth, so we may need to note that in 12.6.10.
				2. Also need to look at an edit to note that pair-wise keys are used by OWE, but still not used with Pre-Auth.
			5. Look to change the reserved Element ID for Diffy-Helman to be explicit now that we are explicitly defining the reserved items for OWE.
			6. Discussion on the use of “is” – same usage as other definitions in section.
			7. The change of should to shall in 12.12.2 is due to no other option left.
			8. Need to add DH IE to assoc and reassoc frame (near 9.3.3.5 to 9.3.3.7).
			9. Concern in 12.6.1.3.2 for the DMG optional case, is the added sentence correct – it is in the same form as 802.1x, so not worse than what is there.
			10. OWE uses authentication frame similar to 802.1x.
			11. 12.6.10.1 – question on the form of the new sentence.
			12. Discussion on if we could remove some of the “shall not” lists with the new “shall” statement.
				1. There may be a value in keeping it to ensure that people do not confuse the removal with some allowance being given.
			13. No objection for adding OWE, but need to finalize some editorial issues.
			14. Will bring back in 2 weeks for final review.
	5. **Review doc 11-22/0347r0** – Dan HARKINS (HPE)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0347-00-000m-putting-tkip-in-its-place.docx>
		2. CID 1077 (SEC)
			1. Review Comment
			2. Review discussion in submission.
			3. Statement of Deprecation should just say “TSN security mechanisms are deprecated”
			4. Proposed resolution: CID 1077 (SEC): Revised. Incorporate the changes in 11-22/0347r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0347-01-000m-putting-tkip-in-its-place.docx>) for CID 1077
			5. No objection – Mark ready for motion
		3. CID 1076 (SEC)
			1. Review Comment
			2. Review proposed changes.
			3. Discussion on how to correct the issue of when something is deprecated, and those things that are related to it.
			4. Discussion on Policy of deprecation updates.
			5. Discussion on removal or not in the RSNA location 12.5.1.
				1. 4.5.4.1: "An RSNA uses the IEEE 802.1X authentication service along with RSNA mechanisms, such as
				2. TKIP, CCMP, and GCMP, to provide access control."
				3. from [V] Mark Hamilton CommScope/Ruckus to everyone: 9:01 AM
				4. 12.2.2: "RSNA security comprises the following algorithms and procedures:
				5. — TKIP, ..."
			6. Straw Poll: do you support resolving the CID with “Revised. Incorporate the changes in 11-22/0347r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0347-01-000m-putting-tkip-in-its-place.docx>) for 1076”?
			7. Results: 9/3/2/2 – yes/no/abstain/dnv
			8. Proposed resolution: Revised. Incorporate the changes in 11-22/0347r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0347-01-000m-putting-tkip-in-its-place.docx>) for 1076.
			9. Mark Ready for Motion.
		4. Discussion on leftover RSN lists that may have TKIP left in, and so we need to ensure to maintain consistency, we need to clear those. It is a concern that we may mis them in this draft.
		5. CID 1079 (SEC)
			1. Review comment
			2. Review proposed changes.
			3. Need to add remove reference to this section in 12.7.4.
				1. Add “Instruct editor to edit P3215.4 and delete “, except in mixed environments as described in 12.7.1”.
			4. Concern with removal of both WEP and TKIP, WEP is obsolete, and TKIP is only deprecated.
			5. Concern with the combining of all the WEP and TKIP CIDs to address them in total.
			6. Comments for removal of WEP or TKIP or something without the details on how to do that. The comment is not sufficient to do the work.
			7. Support for positions need to done offline.
			8. Proposed Resolution: Revised. Incorporate the changes in 11-22/0347r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-0347-01-000m-putting-tkip-in-its-place.docx>) for 1079.
			9. Concern with not removing enough “no-pair wise” locations that need to be added as well to R1.
			10. Instruct editor to edit P1300 line 1-12, P3219 L43, and P3232 L46 to remove mention of “no pairwise”….Need specific change shown.
			11. The figure (9-350 p1299) will need to be changed as well.
			12. Bring back with the edits done.
	6. **Security AdHoc Comments** – Michael MONTEMURRO (Huawei)
		1. See 11-22/105r2
			1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0105-02-000m-revme-lb258-sec-adhoc-comments.xlsx>
		2. Review status Security Comments
			1. CID 1778 (SEC)
				1. Review comment
				2. Proposed Resolution: CID 1778 (SEC): Accepted. Note to Editor, the locations are: 3260.62, 3260.63, 3260.64, 3261.1, 3261.5, 3261.10, 3261.15, 3261.43.
				3. No objection – Mark Ready for Motion
			2. CID 1924 (SEC)
				1. Review Comment
				2. Discussion on the proposed change.
				3. Proposed Resolution: REVISED (SEC: 2022-02-25 16:37:42Z) - Add the following sentence to the end of the paragraph at 3177.17:

"If management frame protection is enabled, an Authenticator shall provide the IGTK in the 4-way handshake and the group key handshake unless the group management cipher suite selector for the BSS is 00-0F-AC:7."

* + - * 1. No Objection – Mark Ready for Motion.
			1. CID 1907 (SEC)
				1. Review Comment
				2. Review proposed changes.
				3. Discussion on if rather than add PV1 at this cited location, remove the PV1 in other location.
				4. Proposed Resolution: REVISED (SEC: 2022-02-25 16:44:23Z) - At 3150.40, change

"A CCMP protected individually addressed robust Management frame or PV1 Management frame shall use the same TK as a Data frame or PV1 Data frame."

to

"A CCMP protected individually addressed robust Management frame shall use the same TK as a Data frame."

* + - * 1. No Objection – Mark Ready for Motion.
			1. CID 2058 (SEC)
				1. Review Comment
				2. Discussion on proposed changes
				3. Proposed Resolution: REJECTED (SEC: 2022-02-25 16:45:58Z) When using the FT protocol, the reassociation request and response frames are protected with a MIC within the FTE.
				4. No objection – Mark Ready for Motion
	1. April AdHoc - NYC
		1. Offer from Interdigital to sponsor AdHoc at their offices.
		2. Joseph LEVY described the resources available.
		3. Availability is in April – suggested April 26-28.
		4. No objection to hold the last week of April
		5. Straw Poll – are you interested in Attending in person the April Adhoc?
			1. Results: 6 in person; 7 virtually; 2 Not attend.
		6. Based on this straw poll, we will run a motion in the TG on Feb 25 and then WG motion will be done during the March Plenary.
	2. Adjourned 12:03pm ET

**References:**

February 7:

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-0211-01-000m-january-march-teleconference-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-0116-01-000m-lb258-resolution-for-cids-related-to-multiple-bssid-set.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-0116-02-000m-lb258-resolution-for-cids-related-to-multiple-bssid-set.docx>
5. <https://mentor.ieee.org/802.11/dcn/22/11-22-0274-00-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>
6. <https://mentor.ieee.org/802.11/dcn/22/11-22-0274-01-000m-lb258-resolution-for-cids-in-clause-26-2-2.docx>
7. <https://mentor.ieee.org/802.11/dcn/22/11-22-0275-00-000m-lb258-resolution-for-cid-1006.docx>
8. <https://mentor.ieee.org/802.11/dcn/22/11-22-0275-01-000m-lb258-resolution-for-cid-1006.docx>
9. <https://mentor.ieee.org/802.11/dcn/22/11-22-0263-00-000m-proposed-comment-resolution-for-cid-2305.docx>

February 14:

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-0211-02-000m-january-march-teleconference-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-0176-01-000m-proposed-resolution-for-revme-lb258-comments.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-0218-00-000m-proposed-resolution-for-revme-lb258-comments-part-2.docx>

February 25:

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1962-00-0000-2nd-vice-chair-report-january-2022.pptx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-0211-04-000m-january-march-teleconference-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-0305-00-000m-adding-owe.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-0347-00-000m-putting-tkip-in-its-place.docx>
5. <https://mentor.ieee.org/802.11/dcn/22/11-22-0347-01-000m-putting-tkip-in-its-place.docx>
6. <https://mentor.ieee.org/802.11/dcn/22/11-22-0105-02-000m-revme-lb258-sec-adhoc-comments.xlsx>