IEEE P802.11
Wireless LANs

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| Minutes for REVme 2023 February Telecons |
| Date: 2023-02-27 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
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| Stephen McCann | Huawei | Southampton, UK |  | stephen.mccann@ieee.org |

Abstract

Minutes for the TGme (REVme) telecons held during February 2023.

R0: February 03, 2023: Initial minutes.

R1: February 6, 2023: Initial minutes – correction to R0 minutes for CIDs 3181 and 3185

R2: February 10, 2023: Initial Minutes

R3: February 13, 2023: Initial Minutes

R4: February 17, 2023; Initial Minutes

R5: February 24, 2023; Initial Minutes

R6: February 27, 2023; Initial Minutes

**ACTION ITEMS for February:**

* + - 1. ACTION ITEM #1: Mark RISON – Update VISIO File for figure 5-1, 5-2, 5-7.
				1. ACTION ITEM #2: Mark RISON – Create Rejection resolution for CID 3057.

2.9.2.6 ACTION ITEM #3: Emily QI – request the ANA Administrator to mark Reason Codes 44 and 77 in Table 9-77 in D2.0 as used externally to the standard, and to avoid their use.

* + - 1. ACTION ITEM #4: Mark HAMILTON to reach out to Andrew MYLES to see if there is an update, or another person to take the topic of Table E-12 generalization. See CID 3033 (MAC).
			2. ACTION ITEM #5: Michael MONTEMURRO to contact Robert STACY to get proposed resolution for the March Plenary. (Note Robert is on Holiday until Feb 21).
			3. ACTION ITEM #6: Po-Kai HUANG – research if there is an addition change needed on page 1913.15 (the paragraph at that location). Report back to TGme at a later date.

7.10.9.1 ACTION ITEM #7: Mark RISON to send CID 3172 (MAC) topic and resolution to the reflector for broader review.

7.10.10.5 ACTION ITEM #8: Mark RISON to send CID 3173 (MAC) topic and resolution to the reflector for broader review.

1. **TGme (REVme) Telecon –Friday, February 03, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:05 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark RISON (Samsung)
		2. Editor - Emily QI (Intel)
		3. Secretary - Jon ROSDAHL (Qualcomm)
		4. Not present:
			1. Vice Chair - Mark HAMILTON (Ruckus/CommScope) – Absent - Traveling
			2. Edward AU (Huawei) Absent - Traveling
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Halasz, David | Morse Micro |
| 2 | Levy, Joseph | InterDigital, Inc. |
| 3 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 4 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 5 | Qi, Emily | Intel |
| 6 | RISON, Mark | Samsung Cambridge Solution Centre |
| 7 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 8 | Sherlock, Ian | Texas Instruments Inc. |
| 9 | Malinen, Jouni | Qualcomm Technologies, Inc |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r3:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-03-000m-january-march-teleconference-agenda.docx>
		2. Friday February 3, 2023

 **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.**Participation and policy related (including Patent and Copyright) slides: See slides 10-19 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>

d.**Agenda Approval**

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

3.       **Comment resolution and motions**

1. **Friday February 3, 2022 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3233 (ED1) – Qi (Intel).
		2. CID 3181 (GEN), 3185 (MAC) – RISON (Samsung)
		3. GEN Discuss/Review CIDs – Rosdahl (Qualcomm)
2. **Monday February 6, 2022 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3693 (ED2) – RISON (Samsung)
		2. CIDs 3514, 3375– RISON (Samsung)
		3. CID 3057 (PHY) – Smith (SRT)
		4. MAC Discuss/Review CIDs – Hamilton (Ruckus/Commscope)
3. **Friday February 10, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. SEC CIDs – 11-22/2163 – Montemurro (Huawei)
4. **Monday February 13, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3384 (MAC) – HALASZ (Morse Micro)
		2. ED2 Discuss/Review CIDs – Au (Huawei)
		3. GEN Discuss/Review CIDs – Rosdahl (Qualcomm)
5. **Friday February 17, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3175, 3289 (MAC) – RISON (Samsung)
		2. Misc MAC CIDs – doc 11-22/2206 – PATIL (Qualcomm)
		3. MAC Discuss/Review CIDs – Hamilton (Ruckus/Commscope)
6. **Friday February 24, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3262 (PHY) – RISON (Samsung)
		2. CID 3316 (GEN) – SMITH (SRT)
		3. CID 3000 (MAC) – PATIL (Qualcomm)
7. **Monday February 27, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. 1024 QAM for S1G – doc 11-23/39 – Halasz (Morse Micro) [Up to 1 hr agenda time]
		2. MAC Discuss/Review CIDs – Hamilton (Ruckus/Commscope
8. **Friday March 3, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3753 – doc 11-23/156 (SEC)– HUANG (Intel)
		2. CID 3742 – doc 11-23/154 (SEC) – HUANG (Intel)
		3. CID 3743, 3744, 3745, 3746 (SEC) – doc 11-23/153 – Huang (Intel)
		4. SEC CIDs – 11=22/2163 – MONTEMURRO (Huawei)

5.       **AOB**

6. **Adjourn**

* + 1. Add CID 3263 PSMP Deletion – Revisit – Mark RISON (Samsung)
		2. CID 3233 is assigned to Mark RISON, so need to reschedule for later.
		3. No objection to approving updated Agenda – see doc 11-21/0155r4:
			1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-04-000m-january-march-teleconference-agenda.docx>
	1. **Editor Report**
		1. Editors are working to incorporate about 100 CIDs from the Baltimore Session.
		2. D2.1 is available in members area.
	2. **Review Doc CID 3181 (GEN), 3185 (MAC)** – Mark RISON (Samsung)
		1. CID 3181 (GEN)
			1. Review Comment
			2. Review discussion in submission.
			3. Review proposed resolution.
			4. Discussion on if “set to” or “is” the right wording.
			5. **Proposed Resolution**: CID 3181 (GEN) Revised. Incorporate the changes in 11-22/2069r4 (https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx), for CID 3181.
			6. No objection – Mark Ready for Motion
		2. CID 3185 (MAC)
			1. Review Comment
			2. Review discussion in submission.
			3. Review context.
			4. Discussion of pairing/detection etc.
			5. Need a VISIO file update to be made
			6. ACTION ITEM #1: Mark RISON – Update VISIO File for figure 5-1, 5-2, 5-7.
			7. **Proposed Resolution:** CID 3185 (MAC) Revised. Incorporate the changes in 11-22/2069r4 (https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx), for CID 3185.
			8. No Objection -- Mark Ready for Motion
		3. CID 3263 (GEN)
			1. Review proposed resolution from last week.
			2. There was an issue with removing from a table that needs to be marking it reserved, rather than deleting.
			3. Need to update the ANA database.
			4. Review changes needed to update the resolution.
			5. **Proposed Resolution:** Revised. Incorporate the changes in 11-22/2069r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>), for CID 3263. This provides the specific changes to remove PSMP from the spec.
			6. No Objection – Already marked ready for Motion, and the version of R4 is correct in the database.
	3. Change to Steven MCCANN to take minutes.
	4. **GEN Discuss/Review CIDs** – Rosdahl (Qualcomm)
		1. Present from Database.
		2. GEN AdHoc Comment File: 11-22/2016r4:
			1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2016-04-000m-revme-gen-ad-hoc-comments-on-lb270.xlsx>
		3. CID 3459 (GEN)
			1. No discussion.
			2. **Proposed Resolution**: Accepted.
			3. No Objection -- Mark Ready for Motion
		4. CID 3712 (GEN)
			1. Direction is required to assist with the creation of a submission.
			2. C: I understand that external groups (e.g. IEEE 1609.3) uses these vectors in clause 8, so it may not be so easy to change.
			3. Mark as more work required.
			4. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			5. GEN AdHoc Notes:
				1. GEN: 2023-02-03 15:42:36Z - status set to: More Work Required - Scheduled for March Plenary.
				2. GEN: 2023-02-03 15:37:43Z - Reviewed on Feb 3 Telecon. (Note IEEE 1609.3 may refer to parts of Clause 8). The Proposed direction will check on references.
		5. CID 3632 (GEN)
			1. There was some discussion about the details of the required change.
			2. P404 of P802.11REVme D2.1 was displayed.
			3. Each value in the table has inconsistent options in the 4th column.
			4. C: The S1G Beacon can have additional items, which results in the different phrases for the S1G items (e.g. S1GRelay).
			5. C: Nothing appears to be incorrect. I think this is a low priority concern.
			6. C: I don’t think a rule is required for this table.
			7. C: The entry for “HT Capabilities” appears to be broken.
			8. Mark as more work required.
			9. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			10. GEN AdHoc Notes:
				1. GEN: 2023-02-03 15:59:16Z - status set to: More Work Required - Scheduled for March.
				2. GEN: 2023-02-03 15:58:22Z - Discussed on February 3 Telecon - Not clear of need for change.
		6. CID 3566 (GEN)
			1. No discussion.
			2. Mark as more work required.
			3. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
		7. CID 3535 (GEN)
			1. Examples of the issue were located within the draft.
			2. Mark as more work required.
			3. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			4. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:08:12Z - status set to: More Work Required - Discussed Feb 3, 2023 - Schedule for March.

**Mark RISON take over Chairing (Mike Montemurro has Webex issues)**

* + 1. CID 3793 (GEN)
			1. C: I propose a reject for this comment. TGbe will follows REVme and so this is not necessary.
			2. C: I agree.
			3. C: The definition in the base-line is for multi-band, not multi-link.
			4. C: However, a definition for multi-band may avoid confusion.
			5. C: However, such a definition of multi-band has nothing to do with any 11be definitions.

**Mike Montemurro resumes Chairing**

* + - 1. C: However, such a definition of multi-band has nothing to do with any 11be definitions.
			2. C: Perhaps this should be handled in TGmf.
			3. More Work Required - Assign to Tomoko - Schedule for March.
			4. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:20:50Z - status set to: More Work Required - Assign to Tomoko - Schedule for March.
		1. CID 3175 (GEN)
			1. Some minor discussion.
			2. Mark as more work required.
			3. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			4. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:23:28Z - status set to: More Work Required Assgined to Mark R - Schedule for March Plenary
				2. GEN: 2023-02-03 16:22:45Z - Discussed on Feb 3 Telecon
		2. CID 3457 (GEN)
			1. No discussion.
			2. Mark as more work required.
			3. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
		3. CID 3370 (GEN)
			1. C: I think this frame could be an MSDU, so I prefer the term “payload”.
			2. C: I would not like to see the term “payload” used.
			3. Mark as more work required.
			4. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			5. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:33:33Z - status set to: More Work Required - Assign to Mark RISON - Schedule for March Plenary
		4. CID 3355 (GEN)
			1. C: This may be similar to CID 3051, so perhaps the assignee of that one can also address this one?
			2. C: I think these two CIDs address slightly different issues. One is GLK and one is a generic term for Peer-to-peer.
			3. Mark as more work required.
			4. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			5. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:38:22Z - status set to: More Work Required -- Assign to Mark RISON - Mark R to check with Abhi to take it over. - Schedule for March Plenary.
				2. GEN: 2023-02-03 16:35:27Z - Discussion Feb 3 Telecon See CID 3051 (GEN).
		5. CID 3730 (GEN)
			1. D2.1 page 210 shows an example of this issue on line 12.
			2. C: This is the only occurrence of this issue.
			3. **Proposed Resolution:** REVISED (GEN: 2023-02-03 16:49:50Z) - change "

enhanced multiple basic service set identifier (BSSID) advertisement (EMA) access point (AP): An AP with dot11MultiBSSIDImplemented set to true that supports enhancements related to the discovery of nontransmitted BSSIDs.(11ax)"

to "enhanced multiple basic service set identifier (BSSID) advertisement (EMA) access point (AP): An AP that uses enhancements related to the discovery of nontransmitted BSSIDs.(11ax)"

* + - 1. No objection – Mark Ready for Motion
		1. CID 3769 (GEN)
			1. C: I think we change the abbreviation into square brackets.
			2. C: Yes, that’s something the editor can do. Also see CID 3819
			3. **Proposed resolution**; ACCEPTED (GEN: 2023-02-03 16:53:17Z)

NOTE TO Editor: note the changes from CID 3819 and the new format for definitions.

* + - 1. No objection: Ready for Motion
		1. CID 3282 (GEN)
			1. No discussion.
			2. Mark as more work required.
			3. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			4. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:55:20Z - status set to: More Work Required - Assign to Mark RISON - Schedule for March Plenary
				2. GEN: 2023-02-03 16:55:01Z - Discussed in Feb 3 Telecon -
		2. CID 3331 (GEN)
			1. C: I think the term is not used correctly. Perhaps “non-HT” should be changed to “non-HE”.
			2. Mark as more work required. Mark R to consult with PHY SMEs.
			3. Assigned to Mark RISON for presentation at a meeting in the March plenary 2023.
			4. GEN AdHoc Notes:
				1. GEN: 2023-02-03 16:59:55Z - status set to: More Work Required - Assign to Mark RISON - Schedule for March Plenary - Mark R to consult with PHY SMEs (Youhan? Maybe others.)
				2. GEN: 2023-02-03 16:59:30Z - Discussed on Feb 3, 2023
	1. **Adjourn 12:00 ET.**
1. **TGme (REVme) Telecon –Monday, February 06, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:03 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
		2. Vice Chair - Mark RISON (Samsung)
		3. Editor - Emily QI (Intel)
		4. Edward AU (Huawei) Joined late
		5. Secretary - Jon ROSDAHL (Qualcomm)
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 2 | Halasz, David | Morse Micro |
| 3 | Hamilton, Mark | Ruckus/CommScope |
| 4 | Levy, Joseph | InterDigital, Inc. |
| 5 | Malinen, Jouni | Qualcomm Technologies, Inc |
| 6 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 7 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 8 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 9 | Qi, Emily | Intel |
| 10 | RISON, Mark | Samsung Cambridge Solution Centre |
| 11 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 12 | Smith, Graham | SR Technologies |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r3:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-03-000m-january-march-teleconference-agenda.docx>
		2. Friday February 3, 2023

 **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:**

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c.**Participation and policy related (including Patent and Copyright) slides: See slides 10-19 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>

d.**Agenda Approval**

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

3.       **Comment resolution and motions**

1. **Monday February 6, 2022 – 10am – noon Eastern**
	1. Comment resolution
2. CID 3693 (ED2) – RISON (Samsung)
3. CID 3057 (PHY) – SMITH (SRT)
4. MAC Discuss/Review CIDs – HAMILTON (Ruckus/Commscope)
5. **Friday February 10, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. SEC CIDs – 11-22/2163 – MONTEMURRO (Huawei)

5.       **AOB**

6. **Adjourn**

* + 1. Add CID 3263 PSMP Deletion – Revisit – Mark RISON (Samsung)
		2. CID 3233 is assigned to Mark RISON, so need to reschedule for later.
		3. No objection to approving updated Agenda – see doc 11-21/0155r4:
			1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-04-000m-january-march-teleconference-agenda.docx>
	1. **Editor Report**
		1. Offline Emily and Edward have asked for Motion target date.
		2. Discussion on the date for Motions – determined Feb 17th best date.
		3. Editor will then be able to provide a new draft.
	2. **CID 3693 (ED2)** – RISON (Samsung)
		1. Discussed the direction to no use “subfield” and only use “field”.
		2. CID 3693 (ED2): Mark RISON to provide updated proposed changes to match the rule that we aren't going to change all the existing uses. So, just the one known problem that was identified. Leave as More Work Required, March plenary.
	3. **Review Doc 11-22/1868** - CID 3057 (PHY) – Smith (SRT)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-1868-01-000m-cck-deprecation-discussion.pptx>
		2. CID 3057 (PHY)
			1. Review comment
			2. Review submission
			3. Explain the timeline of a proposed deprecation, obsolete and removal.
			4. Discussion on the need for backward compatibility.
			5. Getting more external marketing feedback may be needed.
			6. Ongoing use of Beacon rate of 5.5 is required in 2.4 GHz band.
			7. Discussion on the timing of any future change or proposal for change.
			8. Not enough support to continue.
			9. Proposed Resolution: Reject
				1. Reject reason will be prepared by Mark RISON
				2. Not the time to Deprecate CCK.
				3. Refer to this submission and today’s discussion.
				4. ACTION ITEM #2: Mark RISON – Create Rejection resolution for CID 3057.
			10. Bring back at March plenary.
			11. Mark Ready for Motion.
	4. **MAC Discuss/Review CIDs** – Hamilton (Ruckus/Commscope)
		1. Present from Database, See MAC AdHoc Comment File 11-21/0793r34:
			1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0793-34-000m-revme-mac-comments.xls>
		2. CID 3319 (MAC)
			1. Review comment
			2. Discussion on if the codes are marked as “Reserved, don’t reuse” or just marked “Reserved”.
			3. Review context of clause 9.4.17 –Table 9-77 in D2.0: 44, 77 Reason Codes.
			4. Proposed Resolution: CID 3319 (MAC): REJECTED (MAC: 2023-02-06 15:42:18Z): The Reason Codes are already "reserved" in the Standard, in Table 9-77 in D2.0.

Note to Editor: Ask ANA to mark Reason Codes 44 and 77 as used externally to the standard, and to avoid their use.

* + - 1. No Objection – Mark Ready for Motion
			2. ACTION ITEM #3: Emily QI – request the ANA Administrator to mark Reason Codes 44 and 77 in Table 9-77 in D2.0 as used externally to the standard, and to avoid their use.
		1. CID 3033 (MAC)
			1. Review Comment
			2. Comment from Andrew Myles who has retired (or is in the process of).
			3. We may want to reassign to Brian HART, or Thomas DURHAM.
			4. This is a repeat of CID 2323 and was rejected last time.
				1. Resolution for CID 2323: REJECTED (EDITOR: 2022-09-17 00:57:57Z) - Proposed: REJECTED (MAC: 2022-08-29 23:23:28Z): Document 11-22/0350r2 (https://mentor.ieee.org/802.11/dcn/22/11-22-0350-02-000m-discussion-of-cid2323.pptx) gives a discussion of why the problem is not really as stated, but rather that due to recent regulatory actions, Table E-12 needs further (and different) generalization.
			5. Discussion on possible path forward.
			6. ACTION ITEM #4: Mark HAMILTON to reach out to Andrew MYLES to see if there is an update, or another person to take the topic of Table E-12 generalization. See CID 3033 (MAC).
			7. Proposed resolution: CID 3033 (MAC): REJECTED (MAC: 2023-02-06 15:51:33Z): Document 11-22/0350r2 (https://mentor.ieee.org/802.11/dcn/22/11-22-0350-02-000m-discussion-of-cid2323.pptx) gives a discussion of why the problem is not really as stated, but rather that due to recent regulatory actions, Table E-12 needs further (and different) generalization. The commenter goes on to mention further thoughts on the topic, but no submission has been provided in that direction.
			8. Mark Ready for Motion
		2. CID 3267 (MAC)
			1. Review comment
			2. Similar to CID 3508. – Can use same resolution.
			3. The location is different, but the changes are to be made in Clause 12 instead of the requested location.
			4. Proposed Resolution:

CID 3267 (MAC): REVISED (MAC: 2023-02-06 15:57:49Z):

Delete "If beacon protection is enabled at the non-AP STA, Beacon frames that are received without

BIP protection shall be discarded. A WNM Notification Request frame may be used to report beacon protection failure." from the end of 12.5.3.6

Add before the final paragraph of 12.6.23, as new paragraphs: "If beacon protection is enabled at a non-AP STA, the STA shall discard Beacon frames without BIP protection received from its associated AP. The STA may use a WNM Notification Request frame to report beacon protection failure. If beacon protection is enabled at a non-AP STA, the STA should discard broadcast Probe Response frames received from its associated AP.

NOTE--An EDCA Parameter Set element might need to be retained if the element is not provided in Beacon frames."

Note to Editor - this is the same resolution as for CID 3508, as that resolution addresses this problem.

* + - 1. No Objection – Mark Ready for Motion
		1. CID 3699 (MAC)
			1. Review comment
			2. Review for direction.
			3. Review context on page 1225.
			4. Discussion on how come notes need more technical (normative) reference.
			5. Footnotes are normative and should appear at the bottom of the page. However, in Table 9-311 seems to have an issue on if the R1, R2 are footnotes or not.
			6. Mark CID 3699 as More Work Required
			7. Assign to Mark RISON
			8. Schedule for March Plenary.
		2. CID 3365 (MAC)
			1. Review Comment.
			2. dot11BeaconRssi is not used outside the 11.43
			3. The MIB area cannot be just deleted, and we would need to deprecate that section. So, the proposed resolution should Delete 11.43 and deprecate dot11BeaconRssiTable (and its children)
			4. No one remembers where this came from in 2016.
			5. Maybe some clause related to Wi-Fi Alliance work.
			6. This is related to estimate of throughput and may be related to Cellular handover and work with 3GPP.
			7. Clauses 11.43 and 11.44 were added together. see doc.: IEEE 802.11-14/0921r3 Abstract: This document proposes some clarifications for Beacon RSSI. Please see IEEE 802.11-14/0890r2 for further details on discussion.
			8. Discussion now on why not removing would be a better path.
			9. This is referenced in 3GPP specification.
			10. We will want to add a note to help, but a final solution should include a more complete definition.
			11. We could add a note: NOTE---The mechanism by which the MAC obtains a beacon's RSSI is implementation-dependent.
			12. Proposed Resolution: CID 3365 (MAC): REVISED (MAC: 2023-02-06 16:23:14Z): At the end of subclause 11.43, add a NOTE: "NOTE--The mechanism by which the MAC obtains a beacon's RSSI is implementation-dependent."
			13. No objection – Mark Ready for Motion.

* + 1. CID 3395 (MAC)
			1. Review Comment.
			2. Review Context on page 1040. 9.4.2.47.
			3. Proposed resolution: CID 3395 (MAC): REVISED (MAC: 2023-02-06 16:27:47Z): At the cited location, after "The WIPN field (#1406)contains the current RSC for the WIGTK being installed." add "The RSC for a WIGTK is the WIGTK packet number (WIPN)."
			4. No Objection – Mark Ready for Motion
		2. CID 3398 (MAC)
			1. Review the comment
			2. The Cited reference seems to be incorrect.
			3. A better reference may be 10.23.2.12.
			4. The note is for event a) that uses rule e). that is not quite connected.
			5. Not able to find better connections.
			6. Note there are three locations with this note: 1911.3, 1909.40 and 1895.60 D2.0
			7. Assign to Mark HAMILTON
			8. More Work Required
			9. Schedule for March Plenary
		3. CID 3400 (MAC)
			1. Review Comment
			2. Review p695 for context.
			3. Review table of table 9-69
			4. Each Instance needs to be reviewed to get the right information added.
			5. Assign to Mark RISON
			6. Schedule for March Plenary
			7. Mark More Work Required.
			8. AdHoc notes: MAC: 2023-02-06 16:41:16Z - More Work Required. Assign to Mark RISON. Schedule for March plenary/
			This would be introducing a new requirement that could make existing implementations non-compliant. Also, it's not clear that all cases where RSNE is not explicitly required have it therefore disallowed. A submission is required that evaluates and explains each occurrence.
		4. CID 3435 (MAC)
			1. Review Comment
			2. We discussed this last April but adding the dBm was not thought to be good at that time.
			3. Will skip this one and come back later. Mike MONTEMURRO will look for previous comment and discussion.
		5. CID 3454 (MAC)
			1. Review Comment
			2. Similar to CID 1888 that was rejected. Needed more details.
				1. See doc 11-22/1449.
			3. No updates to document or discussions found.
			4. Assign to Dave HALASZ
			5. Mark More Work Required.
			6. Schedule for March Plenary.
	1. **Adjourned at 11:55am ET.**
1. **TGme (REVme) Telecon – Friday, February 10, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:03 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
		2. Vice Chair - Mark RISON (Samsung)
		3. Editor - Emily QI (Intel) Joined late
		4. Secretary - Jon ROSDAHL (Qualcomm)
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Halasz, David | Morse Micro |
| 2 | Hamilton, Mark | Ruckus/CommScope |
| 3 | Levy, Joseph | InterDigital, Inc. |
| 4 | Malinen, Jouni | Qualcomm Technologies, Inc |
| 5 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 6 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 7 | Qi, Emily | Intel |
| 8 | RISON, Mark | Samsung Cambridge Solution Centre |
| 9 | Rosdahl, Jon | Qualcomm Technologies, Inc. |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r6:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-06-000m-january-march-teleconference-agenda.docx>
		2. Friday February 10, 2023

 **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.**Participation and policy related (including Patent and Copyright) slides: See slides 10-19 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>

d.**Agenda Approval**

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

3.       **Comment resolution and motions**

1. **Friday February 10, 2023 – 10am – noon Eastern**
	1. Comment resolution
		1. CID 3009 (ED1) – Withdrawn
		2. CID 3488 (PHY) – RSN Field – Mark RISON (Samsung)
		3. SEC CIDs – 11-22/2163 – Michael MONTEMURRO (Huawei)

5.       **AOB**

6. **Adjourn**

* + 1. Add CID 3488 RSN Field – Mark RISON (Samsung)
			1. It had been scheduled for 2nd Call after F2F.
		2. CID 3009 is ED1 not GEN
		3. No objection to approving updated Agenda – see doc 11-21/0155r7:
	1. **Editor Report**
		1. No report today – no Editors at this point of the call.
	2. **CID 3009 (ED1)**
		1. Proposed Resolution: Rejected – Comment has been withdrawn by the commenter
		2. No Objection – Mark Ready for Motion
	3. **Review Doc 11-22/2069r4 - CID 3488 (PHY)** RSN Field – Mark RISON (Samsung)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>
		2. CID 3488 (PHY)
			1. Review Comment
			2. Discussion about whether this really is the entire element, or only the Information field.
			3. Truncation is not the important aspect here, it could be truncated regardless of whether it is the entire element, or not.
			4. The comment was only about "RSNE field", why are we expanding to "contents of the RSNE"? A: This came up on the reflector when a resolution was being discussed.
			5. Some voiced that they were Good with the changes shown in the document. The questions asked in the document go too far beyond the comment and should be addressed with a comment on the next round.
			6. Proposed Resolution: CID 3488 (PHY): Revised: Incorporate the changes in 11-22/2069r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>) for CID 3488, which clarify the references to the RSNE field in the RSNA event report.
			7. No Objection – Mark Ready for Motion
	4. **Review Doc 11-22/2164r3 - SEC CIDs** - Mike MONTEMURRO (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2163-03-000m-lb270-sec-adhoc-comment-resolutions-part-2.docx>
		2. CID 3131 (SEC)
			1. Review comment
			2. Discussion about the expansion of PWE and the placement of the "(PWE)" in the quoted text.
			3. Conclusion is that this is not an expansion of an abbreviation but is a local reference name for the thing being discussed in the text in clause 12. So, no change is needed for PWE.
			4. Proposed Resolution: CID 3131 (SEC): REVISED. At P250.51, replace “password element of an ECC group” with “password element of a finite cyclic group”
			5. No Objection – Mark Ready for Motion
		3. CID 3133 (SEC)
			1. Review Comment
			2. Discussion about the proposed 12.12 sub clauses.
			3. The document shows the actual changes.
			4. C: I think this should be an accept.
			5. Proposed Resolution: CID 3133 (SEC): ACCEPTED.

Note to Editor. The changes are shown in the discussion in 11-22/2163r3 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2163-03-000m-lb270-sec-adhoc-comment-resolutions-part-2.docx>). Part of the text referring to WEP has been deleted as a result of the resolution of CID 3222 in document 11-22/2003r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2003-04-000m-wep-removal.docx>).

* + - 1. No Objection – Mark Ready for Motion
		1. CID 3199 (SEC)
			1. Review Comment
			2. C: The scope of the changed text is confusing.
			3. C: There is no such requirement on the receiver.
			4. C: Management frame protection has some issues on the transmitter side. The text should be clarified.
			5. Proposed Resolution: CID 3199 (SEC): REJECTED. The cited paragraph describes requirements for behavior associated with the transmission of Protected Dual of Public action frames. The cited text is correct and consistent with the other text in the paragraph.
			6. No Objection – Mark Ready for Motion
		2. CID 3228 (SEC)
			1. Review Comment
			2. Proposed Resolution: CID 3228 (SEC): ACCEPTED. Note to Editor, changes are shown in 11-22/2163r3 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2163-03-000m-lb270-sec-adhoc-comment-resolutions-part-2.docx>).
			3. No Objection – Mark Ready for Motion
		3. CID 3230 (SEC)
			1. Review Comment
			2. Discussion about whether this should be a revised or rejected
			3. Proposed Resolution: REVISED. Remove WEP as a standalone cipher by incorporating changes under the “Changes to the draft” header in document 11-22/2003r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2003-04-000m-wep-removal.docx>). This removes the referenced text.

Note to Editor. The same resolution to CID 3222.

* + - 1. No Objection – Mark Ready for Motion

* + 1. CID 3257 (SEC):
			1. Review Comment
			2. Review discussion in Submission.
			3. Proposed Resolution: REVISED. Change "PeerKey" to "AP PeerKey" at 2946.62. Change "PeerKeyInit" to " EAPOLKeyReceived" at 2932.53
			4. No Objection – Mark Ready for Motion
		2. CID 3269 (SEC):
			1. Review Comment
			2. Review discussion in Submission.
			3. Proposed Resolution: CID 3269 (SEC): REVISED. The cited text refers to multiband operation, change cross reference from 12.6.19 to 12.6.22 at cited location.
			4. No Objection – Mark Ready for Motion
		3. CID 3281 (SEC):
			1. Review Comment
			2. Review discussion in Submission.
			3. Proposed Resolution: REJECTED. Beacon protection cannot be used without management frame protection.
			4. No Objection – Mark Ready for Motion
		4. CID 3292 (SEC):
			1. Review Comment
			2. Review discussion in Submission.
			3. Discussion on key reuse.
			4. C: The original note is still clearer.
			5. Discussion about whether this should be a reject or a revised.
			6. Proposed Resolution: REVISED. At 492.20 add a "NOTE---A new key is identified by virtue of having a different Key parameter than any of the currently configured keys used by the MAC."
			7. No Objection – Mark Ready for Motion.
		5. CID 3302 (SEC)
			1. Review Comment
			2. Review discussion in Submission.
			3. There was an option listed. Updated the Revised option.
			4. Discussion on what should be in parenthetical “but see”
			5. Another alternative - we can say "or 0 or 1 when PTK rekeying (see 12.7.2)
			6. The cited location is an example, not the definitive text. So just take the Accepted may be a better path.
			7. Proposed Resolution: Accepted.
			8. No Objection – Mark Ready for Motion.
		6. CID 3328 (SEC)
			1. Review Comment
			2. Review Discussion in Submission.
			3. from 1.4
				1. References in this standard to “FILS authentication frame” or “SAE authentication frame” are to beunderstood as references to an Authentication frame that contains fields and elements for FILS or SAE(respectively) operation per Table 9-69 (Presence of fields and elements in Authentication frames).
			4. Concern with capitalization in proposed change.
			5. Proposed Resolution: REVISED. Change "Authentication frame" to "SAE authentication frame" at 2831.42/46/51
			6. No Objection – Mark Ready for Motion
		7. CID 3353 (SEC):
			1. Review Comment
			2. Review Discussion in Submission.
			3. Proposed Resolution: CID 3353 (SEC): REVISED. Make the following changes at the correct location in line with the proposed changes. At 2878.27, change

“In the case of an IBSS, the SME shall delete the PTKSA and the receive GTKSA and any IGTKSA.”

to

“In the case of an IBSS, the SME shall delete the PTKSA(s) and the GTKSA(s) and any IGTKSA(s)."

* + - 1. No Objection – Mark Ready for Motion

* + 1. CID 3685 (SEC):
			1. Review Comment
			2. Review Discussion in Submission.
			3. Proposed Resolution: CID 3685 (SEC): REVISED. Align the two cited sentences. At 2855.34, change:

“GTKSA: A result of a successful group key handshake, 4-way handshake, FT 4-way handshake, FT authentication sequence, or FILS authentication.”

to

“GTKSA: A result of a successful group key handshake, 4-way handshake, FT 4-way handshake, FT protocol, FT resource request protocol, or FILS authentication.”

* + - 1. No Objection – Mark Ready for Motion
		1. CID 3407 (SEC):
			1. Review Comment
			2. Review Discussion in Submission.
			3. There was a discussion on the options in the submission.
			4. The original proposed change was missing a word, so a revision was crafted.
			5. Proposed Resolution: REVISED. After the first sentence of the subclause insert the sentence "Otherwise, irrespective of the Key Type parameter, when the Key parameter is the same as a key installed as a result of EAPOL-Key PDUs or exiting WNM sleep mode, receipt of this primitive shall have no effect."
			6. No Objection – Mark Ready for Motion
		2. CID 3465 (SEC):
			1. Review Comment
			2. Review Discussion in Submission.
			3. Discussion on the Descriptor Type field.
			4. The group that is assigned Descriptor Type is responsible for versioning and definition of the body of the frame.
			5. After debate, there was only one objection to just accepting the comment.
			6. Proposed Resolution: Accepted.
			7. One Objection – Mark Ready for Motion
		3. CID 3466 (SEC)
			1. Review Comment
			2. Review Discussion in Submission.
			3. Discussion on what the field should contain when a nonce is not required.
			4. Mark More Work Required
			5. Assign to Mark RISON
			6. Schedule for March Plenary
		4. CID 3486 (SEC)
			1. Review Comment
			2. Ran out of Time.
	1. **Adjourn at 12:00 pm**
1. **TGme (REVme) Telecon –Monday, February 13, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:03 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
		2. Vice Chair - Mark RISON (Samsung)
		3. Secretary - Jon ROSDAHL (Qualcomm)
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Halasz, David | Morse Micro |
| 2 | Hamilton, Mark | Ruckus/CommScope |
| 3 | Harkins, Daniel | Aruba Networks, Inc. |
| 4 | Kim, Youhan | Qualcomm Technologies, Inc. |
| 5 | Levy, Joseph | InterDigital, Inc. |
| 6 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 7 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 8 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 9 | RISON, Mark | Samsung Cambridge Solution Centre |
| 10 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 11 | Seo, Sangho | Broadcom Corporation |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r7:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-07-000m-january-march-teleconference-agenda.docx>
		2. Friday February 3, 2023

 **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.**Participation and policy related (including Patent and Copyright) slides: See slides 10-19 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>

d.**Agenda Approval**

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

3.       **Comment resolution and motions**

1. **Monday February 13, 2022 – 10am – noon Eastern**
	1. Comment resolution
2. CID 3384 (MAC) – Dave HALASZ (Morse Micro)
3. CID 3506 and 3507 – Au (Huawei)
4. GEN Discuss/Review CIDs – Rosdahl (Qualcomm)

5.       **AOB**

6. **Adjourn**

* + 1. Add 1024 QAM for S1G.item for Dave Halasz (Morse Micro)
		2. No Editor Report Today.
		3. Move to another Agenda “CID 3506, 3576, 3630, 3640 and 3724 – Edward AU (Huawei)”
			1. The chair would like to review CID 3506 and 3507 today though on behalf of Edward AU.
		4. No objection to approving updated Agenda – see doc 11-21/0155r8:
			1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-08-000m-january-march-teleconference-agenda.docx>
	1. **Announcement on S1G 1024 QAM** – Dave HALASZ (Morse Micro)
		1. Dave Will present on Feb 27, 2023.
		2. For adding 1024QAM to S1G, the latest is 23/39r4 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0039-04-000m-s1g-1024qam.docx>).
		3. Document 11-23/39r4 is scheduled to be reviewed on the Feb 27 TGme conference call.
		4. List of changes in r4 are,

- Remove the creation of the S1G Extended Capabilities IE and use the S1G Capabilities IE for the Extended Supported S1G MCS and NSS Set.

- In the Extended Supported S1G-MCS and NSS Set subfields, added clarification text to “all channels”.

- Updated the PICS

* 1. **CID 3384 (MAC)** Dave Halasz (Morse Micro)
		1. Dave has reviewed and have found it would be a good plan to take the proposal for resolution CID 3384 (MAC) in doc 11-22/2069r4 (See document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>). Others also voiced support for this plan.
		2. CID 3384 (MAC)
			1. Review the history of the proposed resolution
			2. There is a full paragraph to remove, and other changes reviewed.
			3. Proposed resolution: CID 3384 (MAC): REVISED (MAC: 2023-02-13 15:13:04Z): Incorporate the changes in 11-22/2069r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>) , for CID 3384.
			4. No Objection – Mark Ready for Motion
	2. **Review Doc 11-22/2001r5** CID 3506 and 350 – Au (Huawei)
		1. CIDs presented by Mike MONTEMURRO (Huawei) on behalf of Edward AU
		2. See Document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2001-05-000m-proposed-resolution-for-miscellaneous-lb270-comments.docx>
		3. CID 3506 and 3507 (ED2)
			1. Review Comment
			2. Discussion on history of when this may have been discussed in past.
			3. It was scheduled for Wednesday PM2 of 2023 January Interim but did not get discussed then.
			4. Discussion on the other uses of “L()” and if the name should be changed to be more descriptive.
			5. Some alternative names discussed: Slice, SubStr, SubBitStr, ExtractBits, Portion
			6. Proposed Resolution:

REVISED. Replace “L” with “ExtractBits” at 147.8, 2650.55, 2758.63, 2822.42, 2822.43, 2822.62, 2886.23, 2887.63, Figure 12-30 (4 instances), 2889.9, 2889.17, 2889.23, 2889.28, Figure 12-31, 2891.43, 2894.29, 2894.47, 2894.60, 2895.9, 2895.21, 2895.40, 2895.41, 2897.20, 2897.36, 2897.60, 2898.9, 2898.14, 2898.23, 2928.14, 2928.24, 2934.45, Figure 12-52, 2957.20, 2957.21, 2957.22, 2957.26, 2957.32, and 2957.36.

* + - 1. No objection – Mark Ready for Motion
	1. **GEN Discuss CIDS** – Jon ROSDAHL (Qualcomm)
		1. See doc 11-22/2016r5 Discuss Tab.
			1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2016-05-000m-revme-gen-ad-hoc-comments-on-lb270.xlsx>
		2. Thanks to Stephen MCCANN for taking Notes.
		3. Jon presented from the database:
		4. CID 3330 (GEN)
			1. C: To continue adding clauses which are not being used is not useful. This definition should be changed to the specific waveforms which are used.
			2. A new definition was proposed.
			3. Proposed Resolution: REVISED (GEN: 2023-02-13 15:45:05Z) Change the Definition to "non-high-throughput (non-HT) physical layer (PHY) protocol data unit (PPDU): [non-HT PPDU] A PPDU that is transmitted using PPDU formats defined in Clause 15, Clause 16, Clause 17 or Clause 18."
			4. No objection -- Mark Ready for Motion
		5. CID 3180 (GEN)
			1. Discussion about adding 20 MHz to the list.
			2. Proposed Resolution: REVISED (GEN: 2023-02-13 15:53:25Z) replace the Definition: "primary 20 MHz channel: In a 20 MHz, 40 MHz, 80 MHz, 160 MHz, or 80+80 MHz basic service set (BSS), the 20 MHz channel that is used to transmit 20 MHz physical layer (PHY) protocol data units (PPDUs).
			3. One objection. – Mark Ready for Motion
		6. CID 3770 (GEN)
			1. Discussion
			2. C: I understand that a DTIM Beacon is not a normal Beacon. This definition doesn’t really explain that.
			3. C: I think the current definition is ok.
			4. C: Misinterpretations of this definition have been noted before and so the definition does need a change, as it’s confusing.
			5. C: This definition is important for power save.
			6. C: Perhaps a second sentence like “Group addressed bufferable units (BUs) are transmitted immediately after a DTIM beacon, if any stations (STAs) are in power-save mode." could be added.
			7. More work required.
			8. Assigned to Robert STACEY.
			9. Schedule a future presentation for March plenary.
			10. ACTION ITEM #5: Michael MONTEMURRO to contact Robert STACY to get proposed resolution for the March Plenary. (Note Robert is on Holiday until Feb 21).
		7. CID 3080 (GEN)
			1. C: I think this is a TGbe discussion.
			2. C: I don’t think it is for TGbe.
			3. Chair: The commenter is thinking about withdrawing this comment. I’ll follow up with them.
			4. More work required.
			5. Assigned to John WULERT.
			6. Schedule a future presentation for March plenary.
		8. CID 3247 (GEN)
			1. Some discussion occurred about similar definitions.
			2. More work required.
			3. Assigned to Mark HAMILTON.
			4. Schedule a future presentation for March plenary.
		9. CID 3772 (GEN)
			1. Some discussion occurred.
			2. More work required.
			3. Assigned to Youhan KIM
			4. Schedule a future presentation for March plenary.
		10. CID 3329 (GEN)
			1. This is related to comments from earlier rounds (CID 1980).
			2. C: I think more research is required.
			3. C: The proposed change is ok, but a submission is required to specify the detailed changes and locations in the draft.
			4. More work required.
			5. Assigned to Mark RISON
			6. Schedule a future presentation for March plenary.
		11. CID 3516 (GEN)
			1. C: I disagree that there is a problem. The “unless” in the current text causes confusion.
			2. C: DMS group addressed frames are transmitted unicast by an AP.
			3. Proposed Resolution: REJECTED (GEN: 2023-02-13 16:30:54Z) The Last sentence clarifies when the QoSNoAck is used, and it is needed to make it clear when to use QoSAck or QoSNoAck. In DMS and GCR block ack, the DA is still a group address even though the RA is a unicast address.
			4. No objection – Mark Ready for Motion
		12. CID 3515 (GEN)
			1. This is related to CID 393.
			2. C: I think there is also a helpful note already in the draft.
			3. C: I think something else needs to be fixed.
			4. C: The DA is in Address 3.
			5. Chair: Another comment will need to be generated in the next round, regarding issues with a related sentence. However, that change is not in scope of this CID.
			6. Proposed Resolution: REVISED (GEN: 2023-02-13 16:38:06Z) Add after the cited sentence: "NOTE---This includes a non-AP STA transmission of an MSDU with a group DA, at the AP."
			7. No objection – Mark Ready for Motion
		13. CID 3252 (GEN)
			1. C: The 2 locations of the exact issue were discussed.
			2. Proposed Resolution: ACCEPTED (GEN: 2023-02-13 16:46:53Z)
			3. No objection – Mark Ready for Motion
		14. CID 3478 (GEN)
			1. C: The 2 locations of the exact issue were discussed.
			2. More work required. Assigned to Youhan KIM
			3. Schedule a future presentation for March plenary.
		15. CID 3091 (GEN)
			1. C: We could change “must” to “might”.
			2. C: I think CID 6 was not implemented correctly.
			3. Proposed Resolution: REVISED (GEN: 2023-02-13 16:53:11Z) Change "must" to "might" on p2496.35
			4. Note to editor, The resolution of CID 6 was not implemented correctly.
			5. No objection. Ready for Motion
	2. **REMINDER: Request** for AdHoc chairs to update database and submit updated comment files in preparation for Motions on Friday Feb 17th.
	3. **Adjourn at 11:50am ET.**
1. **TGme (REVme) Telecon –Friday, February 17, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:05 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
		2. Vice Chair - Mark RISON (Samsung)
		3. Editor - Emily QI (Intel)
		4. Secretary - Jon ROSDAHL (Qualcomm)
		5. Not present:
			1. Edward AU (Huawei) Absent - Traveling
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Coffey, John | Realtek Semiconductor Corp. |
| 2 | Hamilton, Mark | Ruckus/CommScope |
| 3 | Harkins, Daniel | Aruba Networks, Inc. |
| 4 | Hedayat, Ahmadreza | Apple Inc. |
| 5 | Levy, Joseph | InterDigital, Inc. |
| 6 | Malinen, Jouni | Qualcomm Technologies, Inc |
| 7 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 8 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 9 | Patil, Abhishek | Qualcomm Incorporated |
| 10 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 11 | Qi, Emily | Intel |
| 12 | RISON, Mark | Samsung Cambridge Solution Centre |
| 13 | Rosdahl, Jon | Qualcomm Technologies, Inc. |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r8:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-08-000m-january-march-teleconference-agenda.docx>
		2. Agenda:
1. **Friday February 17, 2023 – 10am – noon Eastern**

3. Editor Report – Emily QI (Intel)

1. Motions
	* 1. Slides 7 – 9 in document 11-23/24r2
	1. Comment resolution
		1. CID 3175, 3289 (MAC) – RISON (Samsung)
		2. CID 3000 (MAC) – doc 11-22/2208 - PATIL (Qualcomm)
		3. Misc MAC CIDs – doc 11-23/162 – HUANG (Intel)
		4. MAC Discuss/Review CIDs – HAMILTON (Ruckus/Commscope)
			1. No objection to agenda.
	2. **Editor Report –** Emily QI (Intel)
		1. After today’s motion, AdHoc Chairs, please send update files today if possible.
	3. Motions:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0024-02-000m-revme-motions.pptx>
		2. **Motion 96 – EDITOR1, EDITOR2 CIDs (2023-02-17)**
			1. Approve the comment resolutions in the

“MOTION-EDITOR1-2D” (2 CIDs) in 11-22/1976r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-1976-04-000m-revme-wg-lb270-editor1-ad-hoc-comments.xlsx>),

“Motion ED2-270-06” (2 CIDs) in 11-22/1971r7 (<https://mentor.ieee.org/802.11/dcn/22/11-22-1971-07-000m-revme-editor2-ad-hoc-comments-on-lb270.xlsx>),

and incorporate the text changes into the TGme draft.

* + - 1. Moved Emily QI
			2. Second:Stephen MCCANN
			3. Results: No objection – Unanimous – Motion passes – 15 on the WebEx
		1. **Motion 97 – GEN, MAC, PHY, SEC CIDs (2023-02-17)**
			1. Approve the comment resolutions in the

"GEN Motion D" (13 CIDs) in 11-22/2016r6 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2016-06-000m-revme-gen-ad-hoc-comments-on-lb270.xlsx>),

“Motion MAC-BB” tabs (8 CIDs) with the exception of CID 3508 and CID 3267 in 11-21/0793r35 (<https://mentor.ieee.org/802.11/dcn/21/11-21-0793-35-000m-revme-mac-comments.xls>),

“PHY Motion P” tab (1 CIDs) in 11-21/0727r21 (<https://mentor.ieee.org/802.11/dcn/21/11-21-0727-21-000m-revme-phy-comments.xls>),

“Security Motion I” tab (20 CIDs) in 11-22/2020r4 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2020-04-000m-revme-lb270-sec-adhoc-comments.xlsx>)

and incorporate the text changes into the TGme draft.

* + - 1. Moved Dan Harkins
			2. 2nd Jouni MALINEN
			3. Results: No Objection – Unanimous Approval – Motion Passes
		1. **Motion 98 –** CIDs 3508 and 3267 (MAC) (2023-02-17)
			1. Two CIDs were pulled from Motion 97, and we have an update to the proposed resolution for both.
			2. No objection to the updates.
			3. Move to Approve the resolution to CIDs 3508 and 3267 as

REVISED. Delete

"If beacon protection is enabled at the non-AP STA, Beacon frames that are received without

BIP protection shall be discarded. A WNM Notification Request frame may be used to report beacon protection

failure."

from the end of 12.5.3.6

Add before the final paragraph of 12.6.23, at 4603.62 (relative to D2.0), as new paragraphs:

“If beacon protection is enabled at a non-AP STA, the STA shall discard Beacon frames without BIP protection received from its associated AP. The STA may use a WNM Notification Request frame to report beacon protection failure. If beacon protection is enabled at a non-AP STA, the STA should discard broadcast Probe Response frames received from its associated AP.

NOTE 1--An EDCA Parameter Set element might need to be retained if the element is not provided in Beacon frames.

NOTE 2--A broadcast Probe Response frame might be used as a presence indication.”

And incorporate the text changes into the TGme draft

* + - 1. Moved: Jouni Malinen
			2. Seconded: Mark Rison
			3. Results: No Objection – Unanimous - Motion Passes.
	1. **CID 3175 (GEN), 3289 (MAC)** – Rison (Samsung)
		1. CID 3175 (GEN)
			1. Review Comment
			2. Discussion on direction of proposed changes to be made.
			3. Mark More Work Required.
			4. Schedule for March
			5. No change from Feb 3 Telecon.
		2. CID 3289 (MAC)
			1. No update
	2. **Review doc 11-22/2208r2 - CID 3000 (MAC)** – doc 11-22/2208 – Abhi PATIL (Qualcomm)
		1. Document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2208-02-000m-lb270-resolution-for-mics-cids.docx>
		2. CID 3000 (MAC):
			1. Review comment
			2. Review submission proposed changes.
			3. Discussion on use of field/subfields and which are reserved.
			4. Discussion of the “Reserved Values” that need a statement.
			5. Options
				1. "In a field or subfield that is not reserved, values that are reserved for that field or subfield are not used."
				2. "Upon reception of a reserved value in a field or subfield, the behavior is undefined."
				3. "In a field or subfield, values that are reserved for that field or subfield are not used for transmission."
			6. Discussion on use of “undefined”, -- ignore value, not undefined behavior should be avoided. It is not that the behavior is undefined, but the value is ignored.
			7. See context 574.30
			8. More Work Required
			9. Schedule Time for March
			10. AdHoc notes: CID 3000 (MAC): MAC: 2023-02-17 15:37:26Z - Reviewed 11-22/2208. Closing in, but still More Work Required. Bring back in March.
	3. **Review doc 11-23/162 -Misc. MAC CIDs** –– Po-Kai HUANG (Intel)
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0162-01-000m-cr-for-miscellaneous-mac-cids.docx>
		2. CID 3748, 3749 (MAC):
			1. Review comment
			2. Review discussion in submission.
			3. Discussion on use of To DS bit. – Is the use of these bits accurately stated?
			4. Is the last paragraph in each box, it is applicable to mesh STA.
			5. Discussion on adding “for this standard”.
			6. Changes to add “this combination might also be sued by an implementation specific purpose.”
			7. Discussion on keeping the “only”
			8. Discussion on how to clean up the sentences.
			9. Maybe we remove the Mesh statements and put someplace else.
			10. Mark More Work Required,
			11. Schedule for March Plenary
			12. MAC AdHocNotes: CID 3748, 3749 (MAC): MAC: 2023-02-17 15:56:52Z - status set to: More Work Required. Bring back in March.
		3. CID 3750 (MAC)
			1. Review comment.
			2. Review discussion in submission.
			3. Discussion on what requirements is needed here, and which requirements are duplicated in clause 26.
			4. Are capabilities static? Then only the last received is not necessary.
			5. Remove proposed word “last”
			6. Proposed Resolution: CID 3750 (MAC): REVISED (MAC: 2023-02-17 16:04:33Z): Delete the quoted paragraph in 26.17.1.
			7. No Objection – Mark Ready for Motion
		4. CID 3751 (MAC)
			1. Review Comment
			2. Discussion on use of shorthand nomenclature.
			3. What style do we want to use?
			4. Discussion on possible change to probe request and possibly beacon. We should not change beacon, but maybe changing probe request to Probe Request.
			5. Just changing in a single clause and its subclauses.
			6. Concern with changes associated with S1G description.
			7. Need to clarify what the S1G specific Context requirements may be needed.
			8. P1 probe request frames may be broken with doing this change. Unintended consequences with these changes may cause a mess.
			9. Note that in TGbe we have several instances where we say multi-link probe request. TGbe has defined what multi-link probe request / response is. I would prefer to keep it lower case probe request / response with the qualifier multi-link before it.
				1. Out of Scope of TGme, and TGbe would have to address any issues.
			10. Note 11.1.4.3.6 talks about NDP Probe Request frame vs. Probe Request frame
			11. Some wish to have a style guide rule if we make this change.
			12. The potential confusion caused by creating a rule will be a significant amount of work that does not seem worth it.
			13. Mark More Work Required
			14. Schedule time for March Plenary.
			15. Add to MAC AdHoc notes: CID 3751 (MAC): MAC: 2023-02-17 16:26:10Z - status set to: More Work Required. Bring back in March.
		5. CID 3754, 3755, 3756, 3757 (MAC)
			1. Review comment
			2. Review discussion in submission
			3. Discuss adding “for an non-AP STA” and “for an AP” to be explicit on which MIB variable applies.
			4. Review context on 1913.15. There is another place the changes need to be applied.
			5. If this specific location is just AP specific, then there would be no change.
			6. Let’s look at resolving these four CIDs with this submission, and let other changes come later.
			7. Proposed Resolution: CIDs 3754, 3755, 3756, 3757 (all MAC): REVISED (MAC: 2023-02-17 16:30:51Z): Incorporate the changes in 11-23/0162r2 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0162-02-000m-cr-for-miscellaneous-mac-cids.docx>) for CIDs 3754, 3755, 3756, and 3757.
			8. ACTION ITEM #6: Po-Kai HUANG – research if there is an addition change needed on page 1913.15 (the paragraph at that location). Report back to TGme at a later date.
		6. CID 3758 (MAC)
			1. Review comment
			2. Review proposed changes in submission.
			3. Proposed Resolution: CID 3758 (MAC): REVISED (MAC: 2023-02-17 16:39:22Z): Incorporate the changes in 11-23/0162r2 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0162-02-000m-cr-for-miscellaneous-mac-cids.docx>) for CID 3758.
			4. No Objection – Mark Ready for Motion
		7. CIDs 3760, 3761, 3762 (MAC):
			1. Review Comment
			2. Review proposed changes in submission.
			3. Discussion on the value of making changes
			4. Discussion on what the default should be set at.
			5. Discussion on use of AKM vs pair-wise lists.
			6. Use of Group Cipher discussed.
				1. If you specify a CNSA AKM you are prohibited from also specifying a non-CSNA AKM
			7. Mark More Work Required
			8. Schedule for March Plenary
			9. Add to MAC AdHoc Notes: CIDs 3760, 3761, 3762 (MAC): MAC: 2023-02-17 16:52:02Z - status set to: More Work Required. Bring back in March.
		8. CID 3764, 3765 (MAC)
			1. Review Comments
			2. Review discussion in submission.
			3. Proposed Resolution: CIDs 3764, 3765 (MAC): REVISED (MAC: 2023-02-17 16:53:51Z): Incorporate the changes in 11-23/0162r2 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0162-02-000m-cr-for-miscellaneous-mac-cids.docx>) for CIDs 3764 and 3765.
			4. No Objection – Mark Ready for Motion
	4. **Out of time –**
		1. MAC Discuss/Review CIDs – Hamilton (Ruckus/Commscope)
	5. **Adjourn 11:56 am ET**
1. **TGme (REVme) Telecon –Friday, February 24, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:04 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
		2. Vice Chair - Mark RISON (Samsung)
		3. Editor - Emily QI (Intel)
		4. Secretary – Stephen MCCANN (Huawei)
		5. Not present:
			1. Edward AU (Huawei) Absent - Traveling
			2. Jon ROSDAHL (Qualcomm)
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Coffey, John | Realtek Semiconductor Corp. |
| 2 | Hamilton, Mark | Ruckus/CommScope |
| 3 | Hedayat, Ahmadreza | Apple Inc. |
| 4 | Levy, Joseph | InterDigital, Inc. |
| 5 | Malinen, Jouni | Qualcomm Technologies, Inc |
| 6 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 7 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 8 | Qi, Emily | Intel |
| 9 | RISON, Mark | Samsung Cambridge Solution Centre |
| 10 | Au, Edward | Huawei Technologies Co., Ltd |
| 11 | Sherlock, Ian | Texas Instruments Inc. |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r9:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-09-000m-january-march-teleconference-agenda.docx>
		2. Agenda:
1. **Friday February 24, 2023 – 10am – noon Eastern**

3. Editor Report – Emily QI (Intel)

1. Comment resolution
	* CID 3057 (PHY) - Rison (Samsung)
	* CID 3262 (PHY) - Rison (Samsung)
	* CID 3316 (GEN) - Smith (SRT)
	* CID 3697, 3694, 3541, 3538, 3504, 3408, 3526, 3271 (PHY) - Rison (Samsung)
		+ 1. No objection to agenda.
	1. **Editor Report –** Emily QI (Intel)
		1. No update
	2. **Review doc 11-22/2069r5** – Mark RISON (Samsung)
		1. Document: <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-05-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>
		2. CID 3057 (PHY):
			1. Review comment
			2. Proposed Resolution: REJECTED
			3. This proposal was extensively discussed in the task group, but consensus could not be found to make this change at present. The reasons given for this included:
			4. - There are still 11b-only implementations, which have value in certain use cases
			5. - The benefit of removing CCK from the standard would be small
			6. - CCK is not burdensome to implement
			7. - Certain external standards allow for operation above 2 Mbps without use of OFDM
			8. No objection - Mark Ready for Motion.
		3. CID 3262 (PHY):
			1. Review comment
			2. Proposed Resolution: REVISED
			3. Make the changes proposed by the commenter and additionally at 5535.32 change “It is one of the delayed BlockAck frames sent with the BAR/BA Ack Policy subfield set to No Acknowledgment, or Data that does not require an immediate ack, or an Action No Ack frame.” to “It is a Data frame that does not require an immediate ack or an Action No Ack frame.” and delete the first two lines after the = (the ones starting BlockAck/BlockAckReq).
			4. No objection. Mark ready for Motion
		4. CID 3697 (PHY):
			1. Review comment
			2. C: I thought that from REVmc onwards, the MIB has been compiled to check it before publication of the next baseline.
			3. A: Yes, that’s correct.
			4. Proposed Resolution: REJECTED
			5. Setting dot11STACivicLocation or dot11STACivicLocationType can change dot11RMLCIConfigured and dot11RMCivicConfigured, so dot11STACivicLocation and dot11STACivicLocationType are indirectly referred to in the main body of the standard.
			6. The MIB is believed to compile (the MIB immediately prior to SA ballot of what became 802.11-2020 was validated).
			7. dot11STACivicLocationEntry does not appear anywhere in D2.0.
			8. No objection. Mark ready for Motion
		5. CID 3694 (PHY):
			1. Review comment
			2. C: These changes look ok.
			3. Proposed Resolution: REVISED
			4. In D2.1:
			5. At 5342.26 change “This attribute indicates the number of antennas used by the beamformer when sending beamformed transmissions” to “This attribute indicates the maximum number of antennas used by the beamformer when sending beamformed transmissions”.
			6. At 1226.24 change “Indicates the maximum number of space-time streams that the STA can receive in a VHT NDP and the maximum value of Nr that the STA transmits in a VHT Compressed Beamforming frame.” to “Indicates the maximum number of space-time streams that the STA can receive in a VHT NDP, the maximum value for NSTS,total that can be sent to the STA in a VHT MU PPDU if the STA is MU beamformee capable (subject to the Maximum NSTS,total field in the Supported VHT-MCS and NSS Set field) and the maximum value of Nr that the STA transmits in a VHT Compressed Beamforming frame.” with the first NSTS,total italicised and with all but the N subscript.
			7. At 1230.15 change “If MU Beamformee capable” to “If MU beamformee capable”.
			8. At 1230.17 change “is equal to the value in the Beamformee STS Capability subfield of the VHT Capabilities Information field.” to “is indicated by the Beamformee STS Capability subfield of the VHT Capabilities Information field.”
			9. Note to the commenter: dot11VHTBeamformeeNTxSupport contains the beamformee STS capability.
			10. No objection. Mark ready for Motion
		6. CID 3541 (PHY):
			1. Review comment
			2. Proposed Resolution: REJECTED
			3. RFC 2578 specifies that read-create means that “read, write and create access make "protocol sense"” (and requires that read-write not be used for a table if read-create is used). It also specifies that a DEFVAL can be used “for any columnar object of a read-create table”.
			4. No objection. Mark ready for Motion
		7. CID 3538 (PHY):
			1. Review comment
			2. Q: Is the CMAC counter designed for protected beacons?
			3. A: Yes, as BIPN = Beacon. Some minor edits are required, as there is an error in the baseline. It should be BIP replay errors and not CMAC reply errors.
			4. Proposed Resolution: REVISED
			5. Make the changes shown under “Proposed changes” for CID 3538 in <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>.
			6. Note to the commenter: dot11RSNAStatsCMACReplays is for groupcasts, while dot11RSNAStatsRobustMgmtCCMPReplays is for unicasts. Also, dot11RSNAStatsCMACReplays also counts GMAC replays.
			7. No objection. Mark ready for Motion
		8. CID 3504 (PHY):
			1. Review comment
			2. C: I don’t think this involves any statistics. Perhaps a note should be added to clarify this.
			3. More work required. Schedule time in the March plenary.
		9. CID 3526 (PHY):
			1. Review comment
		10. Proposed Resolution: REVISED
		11. In D2.1:
		12. In 6.7.3.1 change "provide the PHY operational characteristics" to "provide PHY operational characteristics"
		13. In 6.7.4.1 change "provides (#3276)PHY operational parameters" to "provides PHY operational characteristics"
		14. In 6.7.4.4 change "provides the operational characteristics of the PHY entity" to "provides PHY operational characteristics"
			1. No objection. Mark ready for Motion
		15. CID 3271 (PHY):
			1. Review comment
			2. Proposed Resolution: REVISED
			3. Deprecate dot11NonAPStationBroadcastCipherSuite and dot11NonAPStationAssociatedSSID with reason “This is not required for interworking.”
			4. Note to the commenter: a dot11APBroadcastCipherSuite is not needed for interworking.
			5. No objection. Mark ready for Motion
	3. **Review from the database** –– Mar Rison (Samsung)
		1. CID 3408 (PHY):
			1. Reviewed the resolution to CID 2123
			2. More work required. Assigned to Mark Rison and schedule time in the March plenary.
	4. **Review from the database** –– Mark Hamilton (Ruckus/Commscope)

Xx check these CIDs against my list xxx

* + 1. CID 3537 (MAC):
			1. Reviewed the resolution to CID 1393
			2. More work required. Assigned to Mark Rison and schedule time in the March plenary.
		2. CID 3300 (MAC):
			1. Reviewed the resolution to CID 2123
			2. C: I would like to avoid using the term “broadcast”.
			3. C: Although there are still 1088 instances of “broadcast” in the draft.
			4. C: The text in Clause 11.22.3.1 was added by 11aq for group addressed GAS query frames and should not be removed. The RA is a broadcast address.
			5. Proposed Resolution: REJECTED (MAC: 2023-02-24 16:12:07Z): The use of "group addressed" in the cited locations differentiates from "individually addressed" GAS frames. There is no concept of “broadcast addressed” in the current draft.
			6. No objection. Mark ready for Motion
		3. CID 3617 (MAC):
			1. C: The required change does not seem so clear.
			2. More work required. Assigned to Mark Hamilton and schedule time in the March plenary.
		4. CID 3607 (MAC):
			1. C: I think this has been discussed before in January 2022, see CID 1859.
			2. C: It needs some further consideration.
			3. More work required. Assigned to Mark Rison and schedule time in the March plenary.
		5. CID 3584 (MAC):
			1. This comment is similar to CID 1716.
			2. C: Since this comment is related to Clause 6 (which has been re-written), it may be easier to accept.
			3. Proposed Resolution: ACCEPTED
			4. No objection. Mark ready for Motion
		6. CID 3570 (MAC):
			1. Review comment.
			2. There was no opinion about the direction for this CID.
			3. More work required. Assigned to Mark Rison and schedule time in the March plenary.
		7. CID 3549 (MAC):
			1. C: This comment has appeared before and a straw poll was taken at the time. See CID 1479.
			2. Proposed Resolution: REJECTED (MAC: 2023-02-24 16:36:23Z): REJECTED (MAC: 2022-08-29 23:23:28Z): The TG rejects the addition of a NOTE similar to that proposed. Concerns were raised that even though this is a NOTE, it implies that for the sake of interoperability, implementations need to (must/shall?) restrict Beacons to 1536 octets. Also, the same concern/restriction seems to apply to Probe Responses. However, restricting Beacons and Probe Responses is becoming problematic with the addition of information, such as Multiple BSSID elements (which is helping with the number of Beacons that need to be received to get all the information, and similar combination signaling that will be heavily leveraged in 11be). A straw poll was held on Aug 15 TGme teleconference in response to CID 1479: "Are you okay with ACCEPT as the resolution to CID 1479?" with results: 4y, 4n, 1a. Other proposed wording for a similar NOTE has also met with resistance due to the reasons mentioned just above.
			3. No objection. Mark ready for Motion
		8. CID 3540 (MAC):
			1. C: I think that 0 should be there, as this value turns off the feature. Therefore it is desirable, especially for point to point scenarios.
			2. Proposed Resolution: REJECTED (MAC: 2023-02-24 16:39:48Z): Yes, this is a desirable behavior, for example for point-to-point operation. No change is needed.
			3. No objection. Mark ready for Motion
		9. CID 3512 (MAC):
			1. C: It’s not clear whether this applies in all cases?
			2. C: There may be many places where this change is required and therefore a submission is required.
			3. More work required. Assigned to Mark Rison and schedule time in the March plenary.
		10. CID 3664 (MAC):
			1. C: A BlockAck is not connected to the frame itself, so I don’t think this rule is required.
			2. C: I think that both options need to be explicitly mentioned.
			3. C: I think this is only applicable for an immediate BlockAck.
			4. C: I’m happy to accept, but the index number 5) needs to be changed in the resolution text.
			5. Proposed Resolution: REVISED (MAC: 2023-02-24 16:53:50Z): In bullet "8)", change "one Ack frame" to "one Ack or BlockAck frame, as appropriate" in both sub-bullets.
			6. No objection. Mark ready for Motion
		11. CID 3501 (MAC):
			1. C: I think this is a submission required.
			2. C: Table 9-218 should say it contains the “GTK sub-element”.
			3. More work required. Assigned to Mark Rison and schedule time in the March plenary.
	1. **Adjourn 12:00 noon ET**
1. **TGme (REVme) Telecon –Monday, February 27, 2023, at 10:00-12:00 ET**
	1. **Called to order** 10:03 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
	2. **Introductions of other Officers present:**
		1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
		2. Vice Chair - Mark RISON (Samsung)
		3. Editor – Emily QI (Intel)
		4. Secretary - Jon ROSDAHL (Qualcomm)
	3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Halasz, David | Morse Micro |
| 2 | Hamilton, Mark | Ruckus/CommScope |
| 3 | Hedayat, Ahmadreza | Apple Inc. |
| 4 | Malinen, Jouni | Qualcomm Technologies, Inc |
| 5 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 6 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 7 | Qi, Emily | Intel |
| 8 | RISON, Mark | Samsung Cambridge Solution Centre |
| 9 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 10 | Smith, Graham | SR Technologies |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
		1. No issues noted
	2. **Review Agenda:** 11-21/0155r10:
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-10-000m-january-march-teleconference-agenda.docx>
		2. Agenda: Monday February 27, 2023 – 10am – noon Eastern

3. Comment resolution

* + 1. 1024 QAM for S1G – doc 11-23/39 – Halasz (Morse Micro) [Up to 1 hr agenda time]
		2. CID 3038 (MAC) – doc 11-23/138 – Hart (Cisco)
		3. MAC Discuss/Review CIDs – Hamilton (Ruckus/Commscope)
		4. No objection for Comment Resolution agenda.
	1. **Editor Report** – Emily QI (Intel)
		1. No report
	2. **Comment status** check discussion, Chair Michael Montemurro (Huawei)
		1. Confirm which CIDs were withdrawn and which have not been.
	3. **Review doc 11-23/0039 –** Dave HALASZ (Morse Micro)
		1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0039-04-000m-s1g-1024qam.docx>
		2. Abstract: This document adds 1024 QAM to S1G.
		3. No Associated CID.
		4. Review submission for changes that will need to be made to add 1024 QAM to S1G.
		5. Minor changes were made as the review of the submission was done.
		6. A new revision will be posted.
		7. Dave H. to send out an announcement to both 802.11 and 802.11m reflectors.
		8. Will prepare a separate Motion and discuss during the March Interim.
	4. **Review doc 11-23/138** – CID 3038 (MAC) – Brian HART (Cisco)
		1. [https://mentor.ieee.org/802.11/dcn/23/11-23-0138-01-000m-arxphystartdelay.docx](https://mentor.ieee.org/802.11/dcn/23/11-23-0138-01-000m-arxphystartdelay.docx%20)
		2. CID 3038 (MAC)
			1. Review comment
			2. Explain history of submission.
			3. Review changes to be made.
			4. Proposed Resolution: REVISED (MAC: 2023-02-27 15:46:38Z): Incorporate the changes in 11-23/0138r2 (<https://mentor.ieee.org/802.11/dcn/23/11-23-0138-02-000m-arxphystartdelay.docx>), which adds an PHY-RXEARLYSIG.indication that allows the PHY and MAC to optimize the awareness of the reception of a PPDU.Note to EDITOR: The changes to 6.5.4.x are still valid (after the clause 6 refactoring), but are now applied to 6.7.4.x.
			5. No Objection – Mark Ready for Motion.
	5. **MAC Discuss/Review CIDs** – Mark HAMILTON (Ruckus/Commscope)
		1. See doc 11-21/079r35:
			1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0793-35-000m-revme-mac-comments.xls>
		2. CID 3500 (MAC)
			1. Confusion if we had done before.
			2. Similar to CID 3501. Which was sent to Mark RISON.
			3. Assign to Mark RISON
			4. Mark More work Required.
			5. Schedule for March Plenary.
		3. CID 3499 (MAC)
			1. Same as CID 3501/3500.
			2. Similar to CID 3501. Which was sent to Mark RISON.
			3. Assign to Mark RISON
			4. Mark More work Required.
			5. Schedule for March Plenary.
		4. CID 3136 (MAC)
			1. Review Comment
			2. Discussion the proposed change given.
			3. Discussion on legacy potential issues.
			4. Add a comma to avoid confusion.
			5. Proposed resolution:

REVISED (MAC: 2023-02-27 16:07:57Z): At P1350 L39, replace

"The Frequency Segment 1 Channel Number field is set to the channel center frequency index of the secondary segment (frequency segment 1) being used currently, if applicable, or set to 0 otherwise. The value of the Frequency Segment 1 Channel Number field is one of the center frequency indices from the row corresponding to the operating class as defined in Annex E."

with

"The Frequency Segment 1 Channel Number field is set to the channel center frequency index of the secondary segment (frequency segment 1) being used currently, if operating in an 80+80 MHz operating class, or set to 0 otherwise. The value of the Frequency Segment 1 Channel Number field is one of the center frequency indices from the row corresponding to the operating class as defined in Annex E, or 0 if not operating in an 80+80 MHz operating class."

* + - 1. No Objection – Mark Ready for Motion
		1. CID 3219 (MAC)
			1. Review Comment
			2. Discussion on if the text was correct as is.
			3. Proposed Resolution:

CID 3219 (MAC): REJECTED (MAC: 2023-02-27 16:10:34Z): The definition of non-EDMG (P219.59) already makes it clear that this is restricted to DMG devices.

* + - 1. No Objection – Mark Ready for Motion
		1. CID 3236 (MAC)
			1. Review Comment
			2. Proposed Resolution: Accepted
			3. No Objection – Mark Ready for Motion
		2. CID 3359 (MAC):
			1. Review Comment.
			2. Review Context.
			3. The idea is to add to the left of the “…” in the Figure 9-875.
			4. The figure is a table figure, so the editor can make the changes.
			5. Discussion on needing to add “y” to “x…m”.
			6. Discussion on if the minimum is 1 or 2 or 3 and if the change will cause a change in that minimum which may be an unintended technical consequence.
			7. Proposed Resolution:

CID 3359 (MAC): REVISED (MAC: 2023-02-27 16:27:35Z): Add cells to Figure 9-875 PPET16 NSTS1 Ruy and PPET8 NSTS1 Ruy as B6-B8 and B9-B11 (just to the left of the first "…"), and add cells PPET16 NSTSn Ruy and PPET8 NSTSn Ruy just to the left of the third "…" without bit numbering, all new fields with width of 3 bits. And at line 24 change "x, …. M" to "x, y, … m". After Figure 9-875 add a "NOTE--The figure assumes there are three or more RU sizes, fewer are possible."

* + - 1. No Objection – Mark Ready for Motion
		1. CID 3060 (MAC)
			1. Review comment
			2. Discussion on potential name change.
			3. Proposed Resolution: Accepted.
			4. No Objection – Mark Ready for Motion

* + 1. CID 3172 (MAC)
			1. Review comment
			2. Concern about the BlockAck operation.
			3. Proposed Resolution: Accepted.
			4. ACTION ITEM #7: Mark RISON to send CID 3172 (MAC) topic and resolution to the reflector for broader review.
			5. No Objection – Mark Ready for Motion
		2. CID 3173 (MAC)
			1. Review Comment
			2. If there is a technical change, then we should get a broader review.
			3. Proposed Resolution: Accepted.
			4. ACTION ITEM #8: Mark RISON to send CID 3173 (MAC) topic and resolution to the reflector for broader review.
			5. No Objection – Mark Ready for Motion
		3. CID 3336 (MAC)
			1. Review Comment
			2. Discussion on if the column that generally has “Mandatory” or “Optional” can have optional information.
			3. Proposed Resolution: CID 3336 (MAC): REVISED (MAC: 2023-02-27 16:43:18Z): At 1802.11 and 1802.24, change "if supported" to "if applicable".
			4. No Objection – Mark Ready for Motion
		4. CID 3128 (MAC)
			1. Review Comment
			2. Discussion on how to remove the requirement.
			3. Discussion on how to describe undefined operation. Discarding may not be sufficient.
			4. Request to add a “discard” at line 1988.6 and delete the end of the sentence.
			5. Proposed Resolution:

CID 3128 (MAC): REVISED (MAC: 2023-02-27 16:56:35Z): At P764 L8, replace "Error" with "Reserved" in the Meaning column (and note to ANA to mark these as to be protected in the future) and remove the reference to 10.28.4 in the "See subclause" column of Table 9-79.

At P1988 L1-8, delete the subclause 10.28.. At 1988.6, replace "shall return the frame(#550) to the source without change except that the MSB of the Category field is set to 1." with "shall discard the frame."

* + - 1. No Objection – Mark Ready for Motion.
	1. **Adjourn 11:57am ET**

**References:**

**February 3, 2023:**

1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-03-000m-january-march-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>
3. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-04-000m-january-march-teleconference-agenda.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>
5. <https://mentor.ieee.org/802.11/dcn/22/11-22-2016-04-000m-revme-gen-ad-hoc-comments-on-lb270.xlsx>

**Feb 6, 2023:**

1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-03-000m-january-march-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>
3. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-04-000m-january-march-teleconference-agenda.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-1868-01-000m-cck-deprecation-discussion.pptx>
5. <https://mentor.ieee.org/802.11/dcn/21/11-21-0793-34-000m-revme-mac-comments.xls>

**Feb 10, 2023:**

1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-06-000m-january-march-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-2163-03-000m-lb270-sec-adhoc-comment-resolutions-part-2.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-2003-04-000m-wep-removal.docx>

**Feb 13, 2023:**

1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-07-000m-january-march-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-08-000m-january-march-teleconference-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/23/11-23-0039-04-000m-s1g-1024qam.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>
5. <https://mentor.ieee.org/802.11/dcn/22/11-22-2001-05-000m-proposed-resolution-for-miscellaneous-lb270-comments.docx>
6. <https://mentor.ieee.org/802.11/dcn/22/11-22-2016-05-000m-revme-gen-ad-hoc-comments-on-lb270.xlsx>

**Feb 17, 2023:**

1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-08-000m-january-march-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/23/11-23-0024-02-000m-revme-motions.pptx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-1976-04-000m-revme-wg-lb270-editor1-ad-hoc-comments.xlsx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-1971-07-000m-revme-editor2-ad-hoc-comments-on-lb270.xlsx>
5. <https://mentor.ieee.org/802.11/dcn/22/11-22-2016-06-000m-revme-gen-ad-hoc-comments-on-lb270.xlsx>
6. <https://mentor.ieee.org/802.11/dcn/21/11-21-0793-35-000m-revme-mac-comments.xls>
7. <https://mentor.ieee.org/802.11/dcn/21/11-21-0727-21-000m-revme-phy-comments.xls>
8. <https://mentor.ieee.org/802.11/dcn/22/11-22-2020-04-000m-revme-lb270-sec-adhoc-comments.xlsx>
9. <https://mentor.ieee.org/802.11/dcn/23/11-23-0024-03-000m-revme-motions.pptx>
10. <https://mentor.ieee.org/802.11/dcn/22/11-22-2208-02-000m-lb270-resolution-for-mics-cids.docx>
11. <https://mentor.ieee.org/802.11/dcn/23/11-23-0162-01-000m-cr-for-miscellaneous-mac-cids.docx>
12. <https://mentor.ieee.org/802.11/dcn/23/11-23-0162-02-000m-cr-for-miscellaneous-mac-cids.docx>

**Feb 24, 2023:**

1. <https://mentor.ieee.org/802.11/dcn/23/11-23-0155-09-000m-january-march-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-04-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-2069-05-000m-resolutions-for-some-comments-on-11me-d2-0-lb270.docx>

**Feb 24, 2023:**

<https://mentor.ieee.org/802.11/dcn/23/11-23-0155-10-000m-january-march-teleconference-agenda.docx>

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