IEEE P802.11  
Wireless LANs

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| Minutes for REVme 2023 February Telecons | | | | |
| Date: 2023-02-10 | | | | |
| Author(s): | | | | |
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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

**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).

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](mailto: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](mailto: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 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](mailto: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**

**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>