IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Telecon Minutes for REVme - August 2021 | | | | |
| Date: 2012-08-16 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jon Rosdahl | Qualcomm Technologies, Inc. | 10871 N 5750 W  Highland, UT 84003 | 1 – 801-492 -4023 | Jrosdahl @ ieee .org |
|  |  |  |  |  |

Abstract

Minutes for the 802.11me (REVme) Telecon for August:

R0 = August 9th

R1 = August 16th

R2 = August 23rd

ACTION ITEMS:

* + 1. ACTION ITEM - 1: Mark RISON to update the document “On FrAttacks and related matters”, and request comments on the reflector – (Not this is not related to any CID).
    2. ACTION ITEM – 2: Mark RISON to check with Graham SMITH about the 11aa comment on page 6. – “regarding 11aa, what frames do APs use to coordinate their usage of the medium?” - they may be "HCCA TXOP Advertisement frames"

2.7.11 ACTION ITEM – 3: Mark RISON - An Update based on our discussion today will be created for doc “On A-MSDU addressing” and a request for review will be sent to the reflector.

1. **TGme (REVme) Telecon Monday August 9th, 2021 at 10-12:00 ET**
   1. Called to order 10:05am ET by the TG Chair, Michael MONTEMURRO (Huawei).
      1. Introductions of Officers.
   2. Attendance:
      1. IMAT Reported attendance

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 2 | Bhandaru, Nehru | Broadcom Corporation |
| 3 | Derham, Thomas | Broadcom Corporation |
| 4 | Halasz, David | Qualcomm Incorporated |
| 5 | Hamilton, Mark | Ruckus/CommScope |
| 6 | Kim, Youhan | Qualcomm Incorporated |
| 7 | Levy, Joseph | InterDigital, Inc. |
| 8 | Lumbatis, Kurt | CommScope, Inc. |
| 9 | Malinen, Jouni | Qualcomm Incorporated |
| 10 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 11 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 12 | NANDAGOPALAN, SAI SHANKAR | Infineon Technologies |
| 13 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 14 | RISON, Mark | Samsung Cambridge Solution Centre |
| 15 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 16 | Smith, Graham | SR Technologies |
| 17 | Stanley, Dorothy | Hewlett Packard Enterprise |
| 18 | Wei, Dong | NXP Semiconductors |

* + 1. Webex Attendance not in IMAT:
       1. Brian HART (Cisco)
       2. Claudio DA SILVA (Facebook)
       3. Gabor BAJKO (Mediatek)
       4. Bo SUN (ZTE)
       5. Rui YANG, (InterDigital)
       6. Emily QI (Intel)
       7. Al PETRICK (Interdigital)
  1. Review Patent Policy and Copyright policy and Participation Policies.
     1. No issues were noted.
  2. Review agenda:11-21/1214r2:
     1. [https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx )
     2. The draft agenda for the teleconferences is below:

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

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

1. Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](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.**Patent, Participation and policy related slides: See slides 4-19 in** <https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>

2.       Editor report – Emily QI/Edward AU

3.       Comment resolution and motions

1. **Monday July 26, 2021 – 10am – noon Eastern**
2. **Monday August 9, 2021 – 10am – noon Eastern**
   * + - 1. Document 11-21/985 – Hart (Cisco) – PHY CIDs (60 min)
         2. Document 11-21/1009 – Henry (Cisco) – IETF RFC reference – CID 91
         3. Document 11-21/981 – Henry (Cisco) – ANQP CIDs
         4. Document 11-21/762 – Montemurro (Huawei) – security CIDs
         5. Document 11-21/803 – Au (Huawei) – Editor2 CIDs
3. **Monday August 16, 2021 – 10am – noon Eastern**
4. **Monday August 23, 2021 – 10am – noon Eastern** 
   1. Motions (document 11-21/758r7)
   2. Comment resolution
5. **Monday August 30, 2021 – 10am – noon Eastern**

5.       AOB

6. Adjourn

* + 1. Discussion on extra slots in the Wireless interim.
    2. Edward Au requests to move his presentation to next week.
    3. Request for extra slot for PM1 for Friday Sept 17 for Interim week.
    4. No objection for the modified agenda.
  1. **Editor Report** – Emily QI (Intel)
     1. D0.2 is now in the member area (since last week).
        1. Includes June and July approved Comment Resolutions.
     2. Will start to roll-in 11ay into the draft.
     3. Thanks to the Editors- Note we are now over 5000 pages to the draft standard.
  2. **Chair passed** to Mark HAMILTON with authority to run the meeting will Michael MONTEMURRO presents.
  3. **Review doc 11-21/762r** – Security – Michael MONTEMURRO (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0762-01-000m-revme-sec-comment-resolutions.docx>
     2. CID 188 (SEC)
        1. Review comment
        2. Review Discussion in this submission.
        3. Review
        4. Review proposed changes.
        5. This CID is related to another CID 186, so assign this to Mark RISON.
        6. Mark RISON to use this presentation as a starting point for resolving both CIDs.
        7. Discussion on when the replay counter should be incremented.
        8. Request to review 11-21/829 for feedback on replay counters.
           1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-01-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
     3. CID 189 (SEC)
        1. Review Comment
        2. Proposed Resolution: Accept
        3. No Objection – Mark Ready for Motion.
        4. Discussion that the point-to-point link is used for the key pair, and is done encrypted, and so is this stated elsewhere and if so, then it is ok.
        5. The Standard defines how to proceed even if some implementations do not do it correctly.
        6. Because Line 8 indicates Encrypted Key data, deleting the info as indicated in the CID on line 22 is ok.
        7. Keeping the “=” as it is introducing a list.
     4. CID 202 (SEC)
        1. Review Comment
        2. Review context for the CID in the discussion.
        3. Proposed Resolution: Rejected. The cited sentence indicates that MFPR=1 is required for IBSS and cannot be removed. Table 12-6 does not conflict with the cited text and provides requirements on RSNA policy selection in an IBSS to determine whether communications between IBSS STAs are allowed.
        4. A more detailed discussion is claimed to be in 11-21/829.
        5. Assign CID 202 to Mark RISON
     5. CID 271 (SEC)
        1. Review Comment
        2. Review discussion.
        3. Proposed Resolution: Rejected. The cited text is correct. For FT, the PTKSA is bound to the BSSID and the STA’s MAC Address (see 12.7.1.6.5).
        4. Discussion – request that the sentence should make a better distinction.
        5. Request to change “Supplicant MAC address or STA’s MAC address”.
        6. Discussion on if we change with “respectfully”, or just expand the phrasing.
        7. Discussion on support for rejecting the CID.
        8. Fundamental question if this is sufficient or not.
        9. Discussion on what should the changes be.
        10. Question on if this is only place and scope of the comments.
        11. Updated Proposed Resolution: Revised. Clarify that the address is based on the negotiated AKM.

Change “Supplicant MAC address or STA’s MAC address”

To

“Supplicant MAC address or STA’s MAC address, depending on the negotiated AKM suite”

Change “Authenticator MAC address or BSSID”

To

“Authenticator MAC address or BSSID, depending on the negotiated AKM suite”

* + - 1. No objection – Mark Ready for Motion
    1. CID 308 (SEC)
       1. Review Comment
       2. Proposed Resolution: Accept
       3. No objection – Mark Ready for Motion
    2. CID 354 (SEC)
       1. Review Comment.
       2. Review discussion.
       3. The Note is for assistance. The real rule is stated elsewhere.
       4. This text is introductory text in clause 12.
       5. Discussion on if the last sentence is just redundant.
       6. Proposed Resolution: Proposed Resolution: Revised; delete the cited sentence.
       7. No objection – Mark Ready for Motion
    3. CID 364 (SEC)
       1. Review Comment
       2. Proposed Resolution: Accept
       3. No objection – Mark Ready for Motion
    4. CID 193 (SEC)
       1. Review Comment
       2. Review Discussion
       3. Proposed Resolution: Revised. Make the following changes in the direction proposed by the commenter:

At 2577.30, replace:

“for the session.”

With

“for the session and TID/ACI.”

At 2587.36, replace:

“for the session.”

With

“for the session and TID.”

* + - 1. Discussion on if “ACI” is needed.
      2. Delete the line PV1 can be QMF.
      3. No objection – Mark Ready for Motion
    1. CID 212 (SEC)
       1. Review comment
       2. Proposed Resolution: Accept
       3. No objection – Mark Ready for Motion
    2. CID 408 (SEC)
       1. Review Comment
       2. Proposed Resolution: Accepted. Note to Editor that the cited text is a 2620.26, 2633.9 and 2633.12
       3. No objection – Mark Ready for Motion
  1. **Review doc 11-21/829** – Security – Mark RISON (Samsung).
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-01-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
     2. CIDs 199, 200, 202 (SEC)
        1. Review Comments
        2. Review Discussion
        3. Discussion on IBSS case.
        4. The proposed change is to make it similar to the infrastructure BSS case
        5. Review TDLS table note changes.
        6. Review IGTK deletion point.
        7. Review more changes that we will be made in 11-21/1128r1.
           1. These are not posted yet will be reviewed later.
        8. More work to make the CIDs and the new presentation consistent so that we do not have changes to the same clauses in two submissions.
        9. Discussion on the TDLS operation and not advertising for RSNE.
        10. Discussion on if IBSS stations can be RSNA station and which STA sets the security policies.
        11. Question on if a group addressed deauthentication frames can be used.
            1. Yes, it can be done.
            2. The removal of IGTK makes this clear.
        12. The changes in 11-21/1128 deletes the next 8 paragraphs, so having the two submissions’ changes combined will make it easier to parse.
     3. CID 395 (SEC)
        1. Review comment
        2. Proposed Resolution: REJECTED; Yes, it is. GCM can have different tag lengths, and there is a discussion of the matter in appendix B of the GCM reference we use in our standard, but GCMP, our instantiation of GCM, doesn't have a variable length tag.
        3. No objection – Mark Ready for Motion
  2. **Adjourned 12:00pm**

1. **TGme (REVme) Telecon Monday August 16th, 2021 at 10-12:00 ET**
   1. **Called to order** 10:02am ET by the TG Chair, Michael MONTEMURRO (Huawei).
      1. Introductions of Officers.
   2. **Attendance**
      1. IMAT Reported Attendance:

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 2 | Bhandaru, Nehru | Broadcom Corporation |
| 3 | Derham, Thomas | Broadcom Corporation |
| 4 | Halasz, David | Morse Micro |
| 5 | Hamilton, Mark | Ruckus/CommScope |
| 6 | Harkins, Daniel | Aruba Networks, Inc. |
| 7 | Hart, Brian | Cisco Systems, Inc. |
| 8 | Henry, Jerome | Cisco Systems, Inc. |
| 9 | Kim, Youhan | Qualcomm Incorporated |
| 10 | Lumbatis, Kurt | CommScope, Inc. |
| 11 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 12 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 13 | Ng, Boon Loong | Samsung Research America |
| 14 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 15 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 16 | Qi, Emily | Intel Corporation |
| 17 | Riegel, Maximilian | Nokia |
| 18 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 19 | Smith, Graham | SR Technologies |
| 20 | Torab Jahromi, Payam | Facebook |
| 21 | Wei, Dong | NXP Semiconductors |

* + 1. Attendance on the WebEx call, but failed to mark attendance in IMAT:
       1. Mathy VANHOEF, (NYUAD)
       2. Ming GAN (Huawei)
       3. Sai Shankar NANDAGOPALAN Cypress/Infineon)
       4. Rui YANG, InterDigital
       5. Mark RISON (Samsung)
  1. **Review agenda:**11-21/1214r2:
     1. [https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx )
     2. The draft agenda for the teleconferences is below:

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

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

1. Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](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.**Patent, Participation and policy related slides: See slides 4-19 in** <https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>

2.       Editor report – Emily QI/Edward AU

3.       Comment resolution and motions

1. **Monday July 26, 2021 – 10am – noon Eastern**
2. **Monday August 9, 2021 – 10am – noon Eastern**
3. **Monday August 16, 2021 – 10am – noon Eastern** 
   * + - 1. GEN comments – Rosdahl (Qualcomm)
         2. Document 11-21/816 – Rison (Samsung)
         3. Document 11-21/1128 – Rison (Samsung)
         4. Document 11-21/803 – Au (Huawei) – Editor2 CIDs
4. **Monday August 23, 2021 – 10am – noon Eastern** 
   1. Motions (document 11-21/758r7)
   2. Comment resolution
5. **Monday August 30, 2021 – 10am – noon Eastern**

5.       AOB

6. Adjourn

* + 1. Discussion on proposed agenda.
    2. Due to Jerome HENRY and Brian HART being absent last week:
       1. Moved to Sept Interim Telecon
          1. Document 11-21/985 – HART (Cisco) – PHY CIDs (60 min)
          2. Document 11-21/1009 – HENRY (Cisco) – IETF RFC reference – CID 91
          3. Document 11-21/981 – HENRY (Cisco) – ANQP CIDs
    3. No objection for Agenda as presented.
    4. Updated Agenda doc to be posted.
  1. **Review Patent Policy and Copyright policy and Participation Policies.**
     1. No issues were noted.
  2. **Editor Report** – Emily QI (Intel)
     1. Integration started a week ago of 11ay is larger than 11ax was.
     2. We still plan to get it before Sept Meeting as the goal.
        + 1. Document 11-21/816 – Rison (Samsung)
  3. **Review Doc 11-21/1128** – On FrAttacks and related matters - Rison (Samsung)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1128-01-000m-on-frattacks-and-related-matters.docx>
     2. Abstract: This submission discusses various considerations regarding vulnerabilities related to fragmentation, prompted by <https://papers.mathyvanhoef.com/usenix2021.pdf>, and related matters.
     3. Review Submission.
     4. Review Proposed Changes.
     5. Discussion on changes at 12.6.14 – change compound sentence to two sentences for clarity.
     6. Discussion on 12.6.21 – make the same style change to the compound sentence.
     7. Discussion on changes to 12.6.9 – try to remove the if and replace with “even though” in the blue highlighted text.
     8. Discussion on the need to carefully word the TBD for “reassoc”.
     9. Note that 12.6.19 had not been reviewed by all the authors prior to presentation.
     10. Review page 6 Table color coding.
     11. Review yellow highlighted cases that need to be reviewed on page 7.
     12. Review updated potentially need to 11.13 –
     13. ACTION ITEM - 1: Mark RISON to update the document “On FrAttacks and related matters”, and request comments on the reflector – (Not this is not related to any CID).
  4. **Review doc 11-21/816** – On A-MSDU addressing - Rison (Samsung)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0816-01-000m-on-a-msdu-addressing.docx>
     2. Abstract: This submission discusses the addresses present in the context of A-MSDUs, and constraints thereon.
     3. Review Submission
     4. Review Proposed changes.
     5. ACTION ITEM – 2: Mark RISON to check with Graham SMITH about the 11aa comment on page 6. – “regarding 11aa, what frames do APs use to coordinate their usage of the medium?” - they may be "HCCA TXOP Advertisement frames"
     6. Discussion on need to check about the PBSS case with Payam and Solomon.
     7. Discussion on the subframe header is the SNAP header and the EtherType being set specifically. The context of the bits should be identified.
     8. Discussion on if reference to Mathy’s paper should be in the standard.
        1. Mathy VANHOEF noted that there is a published stable paper posted at USENIX security, and that paper could be cited as a stable document.
           1. Mathy VANHOEF posted to the chat window:  
              “The BibTex entry is available here: <https://www.usenix.org/conference/usenixsecurity21/presentation/vanhoef> “
     9. When listing the AA-AA-03-00-00-00 please add an indication in parathesis that this indicating a SNAP header.
     10. This submission was not subject of any CID.
     11. ACTION ITEM – 3: Mark RISON - An Update based on our discussion today will be created for doc “On A-MSDU addressing” and a request for review will be sent to the reflector.
  5. **Review Document 11-21/803r0** – Editor2 CIDs – Edward Au (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0803-00-000m-proposed-resolution-for-revme-cc35-comments-part-2.docx>
     2. CID 291 (ED2)
        1. Review comment
        2. Review submission discussion
        3. Review proposed changes and editor instructions.
        4. Proposed update: 9.4.2.21.1: "References in this standard to a ‘<name> report’, where <name> corresponds to one of the MeasurementTypes in Table 9-125 (Measurement Type field definitions for measurement reports) is equivalent to(according to context) a) ‘a Measurement Report frame or Radio Measurement Report frame carrying aMeasurement Report element with the Measurement Type field equal to <name>’ or b) ‘a MeasurementReport element with the Measurement Type field equal to <name>’."
        5. Discussion on removal the “(bit x)” bit indications from the proposed changes.
           1. Some want to remove; some want to keep.
           2. Some believe it is redundant to indicate the bit name as well as the bit position number.
           3. There are about 71x "(bit<space>" in the draft.
           4. The vast majority of the rest (not in clause 9) are in clause 12. In my opinion, we can discuss another time (a new comment?) fixing those, or deciding they are useful as double-check references to the bits as defined in clause 9, for the clause 12 reader.
        6. Straw Poll:
           1. Do you agree to remove all instances of “(bit<number>)” throughout Clause 9 where the bit is already indicated in the frame format?
           2. Results of Straw Poll: 10-1-2
        7. Edward to proceed with removal of the extra info (“(bit <number>)”).
        8. Discussion on Bit Map vs Bit Field. – At 1096.3 change.
           1. Is the Extended Capabilities Field a bitmap or a set of bit fields?
           2. Objection to making a change, maybe leaving it as is would be an option.
        9. Straw Poll: which option would you choose:

Option 1: Change to “is a bitmap”

Option 2: Change to “is a 1-bit field”

Option 3: Do not make a change.

Option 4: Change to “contains a number of subfields that are used to indicate”

* + - 1. A request for any objection to “change to “is a set of 1-bit fields” “
         1. No objection.
      2. Update to the submission will remove the “suggest to “statements in the Editor instructions.
      3. Proposed Resolution: Revised; Incorporate the changes (highlighted in yellow) in doc 11-21/803r1 <<https://mentor.ieee.org/802.11/dcn/21/11-21-0803-00-000m-proposed-resolution-for-revme-cc35-comments-part-2.docx>>, which addresses the commentor’s concerns.
      4. No objection – Mark Ready for Motion
  1. Next Telecon we will have motions (August 23, 2021).
  2. Adjourned at 11:59am ET.

**References:**

August 8, 2021:

* + 1. [https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx )

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>
2. <https://mentor.ieee.org/802.11/dcn/21/11-21-0762-01-000m-revme-sec-comment-resolutions.docx>
3. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-01-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>

August 16, 2021:

* + 1. [https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-1214-02-000m-july-august-teleconference-agenda.docx )

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>
2. <https://mentor.ieee.org/802.11/dcn/21/11-21-1128-01-000m-on-frattacks-and-related-matters.docx>
3. <https://mentor.ieee.org/802.11/dcn/21/11-21-0816-01-000m-on-a-msdu-addressing.docx>
4. <https://mentor.ieee.org/802.11/dcn/21/11-21-0803-00-000m-proposed-resolution-for-revme-cc35-comments-part-2.docx>
5. <https://mentor.ieee.org/802.11/dcn/21/11-21-0803-00-000m-proposed-resolution-for-revme-cc35-comments-part-2.docx>