IEEE P802.11  
Wireless LANs

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| Telecon Minutes for REVme - August 2021 | | | | |
| Date: 2012-08-30+ | | | | |
| 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

R3 = August 30th

R4 = Correct error add line 4.6.7 “Ready for motion, with update to r3 for Mark R's editorial changes."

**ACTION ITEMS:**

August 16th:

* + 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.

August 23rd:

3.10.10.4 ACTION ITEM #4**:** Emily QI to get the Style guide reference (for when “Std” is to be included or not) and send to 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 | Morse Micro |
| 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** gavel 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.
       1. Skip “GEN comments – Rosdahl (Qualcomm)” this week.
    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 a Measurement Report element with the Measurement Type field equal to <name>’ or b) ‘a Measurement Report 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 (Yes/No/Abstain)
        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.

1. **TGme (REVme) Telecon Monday August 23rd, 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 | Aboul-Magd, Osama | Huawei Technologies Co., Ltd |
| 2 | Chung, Chulho | SAMSUNG |
| 3 | Coffey, John | Realtek Semiconductor Corp. |
| 4 | Halasz, David | Morse Micro |
| 5 | Hamilton, Mark | Ruckus/CommScope |
| 6 | Henry, Jerome | Cisco Systems, Inc. |
| 7 | Kim, Youhan | Qualcomm Incorporated |
| 8 | Levy, Joseph | InterDigital, Inc. |
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| 13 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 14 | Qi, Emily | Intel Corporation |
| 15 | RISON, Mark | Samsung Cambridge Solution Centre |
| 16 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 17 | Smith, Graham | SR Technologies |
| 18 | Sun, Bo | ZTE Corporation |
| 19 | YANG, RUI | InterDigital, Inc. |
| 20 | Yee, Peter | NSA-CSD |

* + 1. Attendance on the WebEx call, but failed to mark attendance in IMAT:
       1. Alfred Asterjadhi, Qualcomm Inc.
       2. Payam Torab, Facebook
       3. Gabor Bajko Mediatek
       4. Edward Au (Huawei)
       5. Al Petrick, (InterDigital)
       6. Yongho Seok (MediaTek)
  1. **Review agenda:**11-21/1214r2:
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1214-04-000m-july-august-teleconference-agenda.docx>
     2. Review Draft Agenda:

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

3.       Comment resolution and motions

1. **Monday July 26, 2021 – 10am – noon Eastern**
   1. Comment resolution
2. **Monday August 9, 2021 – 10am – noon Eastern**
   1. Comment resolution
3. **Monday August 16, 2021 – 10am – noon Eastern** 
   1. Comment resolution
4. **Monday August 23, 2021 – 10am – noon Eastern** 
   1. **Motions** (document 11-21/758r7)
      1. Motions on slides 10 to 15 in <https://mentor.ieee.org/802.11/dcn/21/11-21-0758-07-000m-revme-motions.pptx>
   2. Comment resolution
      1. Document 11-21/1136 – Kim (Qualcomm) – TX VECTOR
      2. Document 11-21/799 – McCann (Huawei) – CID 575
      3. Document 11-21/~~763~~695r7 – Montemurro (Huawei) – 802.1D Withdrawal
5. **Monday August 30, 2021 – 10am – noon Eastern** 
   1. Comment resolution
      1. Document 11-21/1026 – Huang (Intel) – SAE AKM
      2. Document 11-21/970 – Huang (Intel) – SHA384 AKM
      3. Document 11-21/829 – RISON (Samsung)
      4. Document 11-21/1130 – RISON (Samsung)

5.       AOB

6. Adjourn

* + 1. Change 11-21/763 to 11-21/695r7
    2. No objection to the updated agenda.
  1. **Reminder for attendance**, **patent and copyright policy**
     1. (<https://imat.ieee.org/attendance> ),
     2. No items identified for Patent or Copyright calls.
  2. **Editor Report Emily QI (Intel)**
     1. No new report.
     2. Working on the roll-in of 11ay.
  3. **Motions:** **Motions (document 11-21/758r7)**
     1. Motions on slides 10 to 15 in <https://mentor.ieee.org/802.11/dcn/21/11-21-0758-07-000m-revme-motions.pptx>
     2. **Motion 8 – EDITOR 1 and EDITOR 2 CIDs**
        1. Approve the comment resolutions in the

“Motion-EDITOR1-D” tab (4 CIDs) in <https://mentor.ieee.org/802.11/dcn/21/11-21-0738-04-000m-revme-wg-cc35-editor1-ad-hoc-comments.xlsx>, except CID 571.

“Motion ED2-B” and “Motion ED2-C" tabs (4 CIDs) in <https://mentor.ieee.org/802.11/dcn/21/11-21-0689-03-000m-revme-editor2-ad-hoc-comments.xlsx>,

and incorporate the text changes into the TGme draft.

* + - 1. Discussion:
         1. Issue with CID 571.

Make it an exception

* + - 1. Moved: Stephen MCCANN
      2. Seconded: Emily QI
      3. **Result Motion 8:** No objection - Unanimous Consent. Motion Passes.
    1. **Motion 9 – GEN, MAC, PHY, SEC CIDs**
       1. Approve the comment resolutions in the

“GEN June Motion A”, “GEN July Motion A”, “GEN July Motion B” tabs (7 CIDs) in 11-21/699r9: <<https://mentor.ieee.org/802.11/dcn/21/11-21-0699-09-000m-gen-adhoc-revme-cc35-comments.xls>>,

“Motion MAC-AC” tab (11 CIDs) in 11-21-793r4: <<https://mentor.ieee.org/802.11/dcn/21/11-21-0793-04-000m-revme-mac-comments.xls>>,

“PHY Motion B” (2 CIDs) in 11-21/727r3: <<https://mentor.ieee.org/802.11/dcn/21/11-21-0727-03-000m-revme-phy-comments.xls>>,

“Security Motion C” tab (9 CIDs) in 11-21/690r5: <<https://mentor.ieee.org/802.11/dcn/21/11-21-0690-05-000m-revme-cc35-sec-comments.xlsx>>, except CID 193.

and incorporate the text changes into the TGme draft.

* + - 1. Moved: Jon ROSDAHL
      2. Seconded: Stephen MCCANN
      3. Discussion: None
      4. **Result Motion 9:** No objection - Unanimous Consent. Motion Passes.
    1. **Motion 10** – CID 153
       1. Approve the comment resolution for CID 153 on the

“GEN July Motion CID 153” tab in 11-21/699r9: <[https://mentor.ieee.org/802.11/dcn/21/11-21-0699-09-000m-gen-adhoc-revme-cc35-comments.xls>](https://mentor.ieee.org/802.11/dcn/21/11-21-0699-09-000m-gen-adhoc-revme-cc35-comments.xls%3e%20)

and incorporate the text changes into the TGme draft.

* + - 1. Moved: Jon Rosdahl
      2. Seconded: Stephen MCCANN
      3. Discussion:
      4. Review resolution
      5. **Result Motion 10:** No objection - Unanimous Consent. Motion Passes.
    1. **Motion 11 – CID 602**
       1. Approve the comment resolution for CID 602 on the “PHY Motion B2” tab in 11-21/0727r3: <<https://mentor.ieee.org/802.11/dcn/21/11-21-0727-03-000m-revme-phy-comments.xls>>

and incorporate the text changes into the TGme draft.

* + - 1. Summary of the comment resolution given.
      2. Moved: Youhan KIM
      3. Seconded: Jon ROSDAHL
      4. Discussion:
         1. Concern on the term used for the bit field as an initial seed, it is not an initial seed, and would like to make the name different.
      5. The name is Scrambler initial value that came from 11ax, future comments can look to change the name later, but this is inline with 11ax that was approved.
      6. **Result Motion 11:** 6 yes 2 no 3 abstain = Motion Passes
    1. **Motion 12** **– ESS terminology updates**
       1. Instruct the editor to incorporate the changes in 11-20/177r9

<<https://mentor.ieee.org/802.11/dcn/20/11-20-0177-09-0arc-liaison-to-revmd-on-ess.docx>> into the TGme draft

* + - 1. Summary of submission given by Mark HAMILTON, chair of ARC SC
      2. Moved: Stephen MCCANN
      3. Seconded: Joseph LEVY
      4. **Result Motion 12:** No objection - Unanimous Consent. Motion Passes.
    1. **Motion 13 – Fixes to Timing Measurement**
       1. Instruct the editor to incorporate the changes in 11-21/1012r2

<<https://mentor.ieee.org/802.11/dcn/21/11-21-1012-02-000m-fixes-to-timing-measurement.docx>>into the TGme draft

* + - 1. Move: Alfred ASTERJADHI
      2. Second: Youhan KIM
      3. **Result Motion 13:** No objection - Unanimous Consent. Motion Passes.
    1. **Motion 14 – CID 571**
       1. Resolve CID 571 with the resolution:

Change all instances in D0.1 (except the instances on page 2567 & 2568 & 2569) of "Advertisement Server" to "advertisement server". Total instances are 41.

On pages 2567 & 2568 of D0.1, upper box, change "Advertisement Server" to “"Advertisement server". There are 3 instances in figures 11-40, 11-41 and 11-42.

And instruct the editor to incorporate the changes into the TGme draft.

* + - 1. Move: Emily QI
      2. Seconded: Stephen MCCANN
      3. Discussion:
         1. Thanks to Emily for getting the material ready for motion.
      4. **Result Motion 14:** No objection - Unanimous Consent. Motion Passes.
  1. **Review doc: Document 11-21/1136** – TX VECTOR – Youhan KIM (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1136-00-000m-cc35-txvector-rxvector.docx>
     2. CID 12 (PHY)
        1. Review Comment
        2. Review submission discussion.
        3. Proposed Resolution: Revised.

Note to Commenter: The proposed text update below removes TX/RXVECTOR parameters not used by the ‘current’ PHY.

Instruction to Editor: Implement the proposed text updates for CID 12 in 11-21/1136r0 <<https://mentor.ieee.org/802.11/dcn/21/11-21-1136-00-000m-cc35-txvector-rxvector.docx>>

* + - 1. Discussion:
         1. Support for the resolution given.
         2. Concern to have more time to review.
      2. Mark Ready for Motion.
  1. **Review Document 11-21/799** – CID 575 – Stephen MCCANN (Huawei) – CID 575
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0799-01-000m-proposed-comment-resolution-for-cid-575.docx>
     2. CID 575 (ED1)
        1. Review comment
        2. Review status of submission.
        3. Review changes from when it was presented in July.
        4. No comments
        5. Proposed resolution CID 575 (ED1): Revised. Incorporate the changes in 11-21/799r1 <<https://mentor.ieee.org/802.11/dcn/21/11-21-0799-01-000m-proposed-comment-resolution-for-cid-575.docx>>.
        6. Mark Ready for Motion
  2. **Pass gavel** for running Meeting to Emily QI, Editor
  3. **Review doc Document 11-21/695r7** – 802.1D Withdrawal – Michael MONTEMURRO (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0695-07-000m-revme-cc35-802-1d-comments.xlsx>
     2. CID 54 (GEN)
        1. Review comment
        2. Proposed Resolution: ACCEPTED (GEN: 2021-08-23 14:51:45Z).
        3. No objection – Mark Ready for Motion
     3. CID 55 (GEN)
        1. Review comment
        2. Proposed resolution: Revised.

Change

"The QoS facility supports eight priority values, referred to as UPs. The values a UP may take are the integer values from 0 to 7 and are identical to the IEEE 802.1D™ priority tags."

to

"The QoS facility supports eight priority values, referred to as UPs. The values a UP may take are the integer values from 0 to 7, which form an ordered sequence of priorities, with 1 being the lowest value, 7 the highest value, and 0 falling between 2 and 3."

* + - 1. No objection – Mark Ready for Motion
    1. CID 56 (MAC)
       1. Review comment
       2. Proposed Resolution: CID 56 (MAC): REVISED (MAC: 2021-08-23 14:54:56Z): Classifier Type 2 is deprecated (see 1199.61) and has been replaced with Classifier Type 5. In the cited table for Classifier Type 2, change "802.1Q parameters" to "802.1Q-2003 parameters (deprecated)". In the cited table for Classifier Type 5, change "802.1D/Q parameters" to "802.1Q parameters".
       3. No objection – Mark Ready for Motion
    2. CID 57 (MAC)
       1. Review comment
       2. Review context location.
       3. Proposed Resolution: CID 57 (MAC): REVISED (MAC: 2021-08-23 14:58:04Z). This classifier is used for tagged frames only so replace the paragraph with: "For Classifier Type 5 when used to match an IEEE 802.1Q tagged frame, the classifier parameters are: Priority Code Point, Drop Eligibility Indicator (DEI), and VLAN ID (VID)."
       4. No objection – Mark Ready for Motion
    3. CID 58 and CID 59 (MAC)
       1. Review comments
       2. Review context in Figure 9-311.
       3. Proposed Resolution: CIDs 58 and CID 59 - REVISED (MAC: 2021-08-23 15:02:26Z): In this case, the field is a 802.1Q priority code point. Replace "802.1D UP / 802.1Q Priority Code Point" with "802.1Q Priority Code Point". Note to Editor: CIDs 58 and 59 have the same resolution.
       4. No objection – Mark Ready for Motion.
    4. CID 60 and 61 (MAC)
       1. Review Comments
       2. Proposed Resolution: CIDs 60 and CID 61 (MAC): REVISED (MAC: 2021-08-23 15:04:54Z): In this case, the field is a 802.1Q priority code point. Replace "802.1D UP / 802.1Q Priority Code Point" with "802.1Q Priority Code Point". Note to Editor: CIDs 60 and 61 have the same resolution.
       3. No objection – Mark Ready for Motion
    5. CID 68 (MAC)
       1. Review Comment.
       2. Note that this CID fixes column 3.
       3. Proposed Resolution: CID 68 (MAC): REVISED (MAC: 2021-08-23 15:07:59Z): Since 802.1D has been withdrawn, the third column is no longer needed. Delete the third column of the cited table.
       4. No objection Mark Ready for Motion.
    6. CID 69 (MAC)
       1. Review Comment
       2. Review context location in clause 14.11.1
       3. Proposed Resolution: CID 69 (MAC): REVISED (MAC: 2021-08-23 15:10:35Z): The objective is to define behavior compatible with 802.1AC and can be used with 802.1Q. At cited location, replace 802.1D with 802.1AC
       4. No objection Mark Ready for Motion.
    7. CID 78 and 79 (GEN)
       1. Review comment
       2. Discussion on the format of the proposed text and if it should be a note or not.
       3. Discussion on the style for when “Std” is to be included or not.
       4. **ACTION ITEM #4:** Emily QI to get the Style guide reference (for when “Std” is to be included or not) and send to reflector:
       5. Proposed Resolution for CID 78 and 79 (GEN): REVISED (GEN: 2021-08-23 15:13:10Z) Replace second sentence with, "Note that suggested default UPs differ from IEEE 802.1Q suggested default priorities. For example, in IEEE Std 802.11, priority 2 is lower than priority 0 while in IEEE Std 802.1Q it is higher." Note to Editor CID 78 and 79 have the same resolution.
       6. No objection Mark Ready for Motion.
  1. Mark Hamilton will take Minutes to end of Telecon: -- Thank you!!
  2. **Review GEN “Review” and “Discuss” comments** – Jon ROSDAHL (Qualcomm)
     1. CID 105 (GEN):
        1. This text is removed by CID 235, which was just put to motion today.
        2. Proposed resolution REVISED (GEN: 2021-08-23 15:23:46Z) The Cited Sentence was deleted by the resolution of CID 235: Note to editor: No further change needed.
        3. No Objection – Mark Ready for motion.
     2. CID 244 (GEN):
        1. Confirmed Youhan seems okay (will confirm off-line).
        2. Accepted.
        3. No Objection – Mark Ready for motion.
     3. CID 420 (GEN):
        1. Reviewed exiting uses. There are very few uses of “ignore” for an entire frame, but many uses for a (sub)field. General agreement to change to “discard” for an entire frame.
        2. Mark RISON will prepare specific changes and bring back.
     4. CID 236 (GEN):
        1. Clarified the scenario: When the specification says “<x> is not <y>” does that include the case when <x> is not present at all? (Or, only if <x> is present and is not equal to <y>.)
        2. Need to see examples. Will bring back for further discussion.
     5. CID 534 (GEN):
        1. Looking for direction, to prepare a resolution.
        2. More investigation needed. Carlos CORDEIRO might be able to help.
        3. Suggest posting to the reflector.
     6. CID 539 (GEN):
        1. More investigation needed. Brian HART may be able to help.
        2. Suggest posting to the reflector.
     7. CID 543 (GEN):
        1. The ARC document does discuss this. Generally, having both Implemented and Activated is not needed or useful, and should be avoided except in very specific cases.
        2. There are three ARC documents that might be helpful to find these, and consider fixing them:
           1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0052-02-0arc-mib-truthvalue-usage-patterns-presentation.pptx>
           2. <https://mentor.ieee.org/802.11/dcn/15/11-15-0355-13-0arc-mib-truthvalue-usage-patterns.docx>
           3. <https://mentor.ieee.org/802.11/dcn/17/11-17-0475-09-0arc-mib-pattern-analysis.xlsx>
        3. More off-line work needed to investigate these.
     8. CID 510 (GEN):
        1. Agree with the direction of the comment.
        2. Need to confirm that all the status and reason codes have a name.
        3. To fix these, we need examples.
        4. On the other hand, it makes the specification more wordy if we use the long name in all cases.
        5. Clarification: we’re talking about fixing these when they appear in text.
        6. More work needed.
  3. **Adjourn 12:00 ET**

1. **TGme (REVme) Telecon Monday August 30th, 2021, at 10-12:00 ET**
   1. **Called to order** 10:04am ET by the TG Chair, Michael MONTEMURRO (Huawei).
      1. Introductions of Officers.
   2. **Attendance**
      1. IMAT Reported Attendance:

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| 2 | Asterjadhi, Alfred | Qualcomm Incorporated |
| 3 | Bhandaru, Nehru | Broadcom Corporation |
| 4 | Coffey, John | Realtek Semiconductor Corp. |
| 5 | Derham, Thomas | Broadcom Corporation |
| 6 | Halasz, David | Morse Micro |
| 7 | Hamilton, Mark | Ruckus/CommScope |
| 8 | Harkins, Daniel | Aruba Networks, Inc. |
| 9 | Henry, Jerome | Cisco Systems, Inc. |
| 10 | Huang, Po-Kai | Intel Corporation |
| 11 | Kim, Youhan | Qualcomm Incorporated |
| 12 | Levy, Joseph | InterDigital, Inc. |
| 13 | Lumbatis, Kurt | CommScope, Inc. |
| 14 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 15 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 16 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 17 | Qi, Emily | Intel Corporation |
| 18 | RISON, Mark | Samsung Cambridge Solution Centre |
| 19 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 20 | Smith, Graham | SR Technologies |
| 21 | Stanley, Dorothy | Hewlett Packard Enterprise |
| 22 | Wei, Dong | NXP Semiconductors |

* + 1. Attendance on the WebEx call, but failed to mark attendance in IMAT:
       1. [V] Rui Yang, (InterDigital)
       2. Edward Au (Huawei)
       3. [V] Gabor Bajko (Mediatek)
  1. **Review agenda 11-21/1214r5:**
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1214-05-000m-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**
   1. Comment resolution
2. **Monday August 9, 2021 – 10am – noon Eastern**
   1. Comment resolution
3. **Monday August 16, 2021 – 10am – noon Eastern** 
   1. Comment resolution
4. **Monday August 23, 2021 – 10am – noon Eastern** 
   1. Motions (document 11-21/758r7) on slides 10 to 15
   2. Comment resolution
5. **Monday August 30, 2021 – 10am – noon Eastern** 
   1. Comment resolution
      1. Document 11-21/1026 – Huang (Intel) – SAE AKM
      2. Document 11-21/970 – Huang (Intel) – SHA384 AKM
      3. Document 11-21/829 – Mark RISON (Samsung)
      4. Document 11-21/1130 – Mark RISON (Samsung)

5.       AOB

6. Adjourn

NOTES:

* + - * Agenda items to be scheduled for September:
        + Document 11-21/985 – Brian HART (Cisco) – PHY CIDs (60 min)
        + Document 11-21/1009 – Jerome HENRY (Cisco) – IETF RFC reference – CID 91
        + Document 11-21/981 – Jerome HENRY (Cisco) – ANQP CIDs
        + Document 11-21/734 – Noh (Senscomm) – S1G CID
    1. No objection to the agenda.
  1. **Editor Report** – Emily QI (Intel)
     1. Master Comment spreadsheet has been uploaded, r6.
     2. Motions from last Monday are captured. 138 comments have been approved.
     3. TGay roll-in underway, to produce D0.3.
     4. Intention is to incorporate comment resolutions in D0.4 from last Monday.
  2. **RAC Issue Review:** Michael Montemurro (Huawei)
     1. IEEE 802.11 EtherType protocol field in registry: (5 min)
        1. 89-0d – "802.11 management protocol" to “Management protocol as defined in IEEE Std 802.11”
        2. 88-c7 – Change “IEEE 802.11i Pre-Authentication” to “RSNA preauthentication as defined in IEEE Std 802.11”
     2. No objection to the proposed changes.
  3. **Review Document 11-21/1026** – SAE AKM – Po-Kai HUANG (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1026-02-000m-akm-for-sae.docx>
     2. Abstract: This document proposes two new AKMs to allow KCK and KEK bits under SAE that are higher than 128 bits when SHA-384 is used
     3. Review Submission – No CID associated with this submission.
     4. Editorial changes noted – list of items needed, so a new revision will be posted.
     5. Two new items are being introduced in the AKM list.
     6. Discussion on the cases of processing AKM in FT cases.
     7. Ready for motion, with update to r3 for Mark R's editorial changes.
  4. **Review Document 11-21/970** – SHA384 AKM – Po-Kai HUANG (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0970-05-000m-akm-for-sha-384.docx>
     2. Abstract: This document proposes two new AKMs to allow mixed key length for individual addressed data and group addressed data and enable SHA-384 under “for FT authentication negotiated over IEEE Std 802.1X” and “Authentication negotiated over IEEE Std 802.1X” scenarios without the need to comply with CNSA suite requirement like AKM 12 and AKM 13.
     3. Review Submission – No CID associated with this submission.
     4. Discussion on the need for notes or not.
     5. Are there need for new items or are they the same as #13?
     6. Discussion on EAP method being added.
     7. Discussion on how to restrict or not restrict the usage of AKM and EAP methods.
     8. Discussion on why we should add a column to facilitate getting each row distinct and remove some of the extra notes at the bottom of the table.
     9. Suggest starting a reflector discussion and bring back for more discussion in Sept.
     10. Adding a column named restriction may be the way forward.
  5. **Review Document 11-21/829r2** – Mark RISON (Samsung)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0829-02-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>
     2. CID 356 (SEC)
        1. Review comment
        2. Proposed Resolution: Rejected. The PN is unique, so as the GCM nonce contains the PN, the GCM nonce is unique. The reason the CCM nonce needs a priority field is to protect the ACI under QMF and to support multiple PNs in S1G STAs (which do not support GCMP). The PV1 field, however, is not strictly necessary, since the AAD covers the protocol version.
        3. No objection – Mark Ready for Motion
     3. CID 190 (SEC) and 589 (EDITOR)
        1. Review Comments
        2. 589 (EDITOR) was resolved in Motion #5
        3. Review Proposed Changes.
        4. Discussion on if the CID 589 changes are impacted from this change or not. Please review 11-21/716r2 to ensure harmony.
        5. Proposed Resolution: REVISED; Make the changes shown under “Proposed changes” for CID 190 in 11-21/829r3

<<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-03-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>>, which clarify that the Key Data Length field can be 0 when the Encrypted Key Data subfield is 1, and that M4 doesn’t require any key data but vendor-specific stuff might be included.

* + - 1. No objection – Mark Ready for Motion
    1. CID 191 (SEC)
       1. Review comment
       2. Discussion:
       3. The proposal is to change, at the referenced location:

A transmitter shall not use IEEE 802.11 MSDU or A-MSDU priorities without ensuring that the receiver supports the required number of replay counters. The transmitter shall not reorder GCMP protected frames that are transmitted to the same RA within a replay counter, but may reorder frames across replay counters. One possible reason for reordering frames is the IEEE 802.11 MSDU or A-MSDU priority.

to:

A transmitter shall not use an IEEE 802.11 MSDU or A-MSDU priority if this would cause the total number of priorities used during the lifetime of the SA to exceed the number of replay counters supported by the receiver (for a pairwise SA) or all the receivers (for a group SA) for that SA. The transmitter shall not reorder GCMP protected frames that are transmitted to the same RA within a replay counter, but may reorder frames across replay counters. One possible reason for reordering frames is the IEEE 802.11 MSDU or A-MSDU priority.

* + - 1. Proposed Resolution: CID 191 (SEC): Make the changes shown under CID 191 in 11-21/0829r3 under "Discussion". Note to commenter, these are the proposed changes.
      2. Mark Ready for Motion, on a separate motion.
    1. CID 394 (SEC)
       1. Review Comment
       2. Review Proposed Changes
       3. Request to include a bit of context for the change.
       4. Proposed Resolution: Revised; At 1151.58, change “The Wrapped Key field contains the wrapped GTK as described in 13.8.5 (FT authentication sequence: contents of fourth message).” to “The Wrapped Key field contains the wrapped GTK being distributed.” in 9.4.2.47 Fast BSS Transition element (FTE).
       5. No objection – Mark Ready for Motion.
    2. CID 199, 200, 202 (SEC)
       1. Review comments
       2. Review proposed Changes.
       3. Discussion on when IBSS uses Security, if 4-way handshake is not done, then security cannot be used.
       4. Validation will be done with Jouni
       5. Proposed Resolution: REVISED; Make the changes shown under “Proposed changes” for CID 199, 200, 202 in 11-21/829r3

<<https://mentor.ieee.org/802.11/dcn/21/11-21-0829-03-000m-resolutions-for-some-comments-on-11me-d0-0-cc35.docx>>, which clarify the MFP behaviour for TDLS, IBSS, MBSS and PBSS.

* + - 1. No objection Mark Ready for motion. – Will be run as a separate motion.
    1. CID 225 (SEC)
       1. Review comment
       2. Proposed Resolution: REJECTED

Non-QoS Data frames can be encrypted by CCMP/GCMP, and in that case 0 is used for the priority (see 12.5.3.3.1, 12.5.3.3.3, 12.5.3.3.4, 12.5.5.3.3, 12.5.5.3.4).

It is not clear whether non-QoS Data frames can be encrypted by TKIP, and if they can, what is used for the priority (see 12.5.2.3.2 and 5.1.1.3). However, TKIP is deprecated and not being maintained anymore.

* + - 1. No objection – Mark Ready for Motion
    1. CID 179, 180 (SEC)
       1. Review Comment
       2. Review Proposed changes.
       3. Review alternates A1 vs A2.
       4. Discussion on how to determine the difference in the key information field in M2, M3 and M4.
       5. No objection to proceeding with Alternative 2 wording.
       6. Review for Message 2 Key Data.
       7. For CID 546, see 11-21/772 which has some similar material to be considered.
    2. Ran out of time – will revisit to complete later.
  1. Adjourned 12:01pm ET

**References:**

**August 8th**:

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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 16th**:

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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>
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**August 23rd:**

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2. <https://mentor.ieee.org/802.11/dcn/21/11-21-0935-01-0000-2nd-vice-chair-report-july-2021.pptx>
3. <https://mentor.ieee.org/802.11/dcn/21/11-21-0758-07-000m-revme-motions.pptx>
4. <https://mentor.ieee.org/802.11/dcn/21/11-21-0738-04-000m-revme-wg-cc35-editor1-ad-hoc-comments.xlsx>
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