IEEE P802.11  
Wireless LANs

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| Telecon Minutes for REVme - April 19 and 26 2021 | | | | |
| Date: 2021-04-26 | | | | |
| Author(s): | | | | |
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|  |  |  |  |  |

Abstract

Telecon Minutes for the 802.11 REVme telecon on April 19 and 26 2021 – 10:00-12:00 ET.

R0: April 19th:

R1: April 26th.

1. **802.11me – REVme Telecon – April 19, 2021 10:00-12:00 ET**
   1. **Called to order** by Michael Montemurro, Chair TGme at 10:07 am ET
   2. Review Patent Policy –
      1. No issues noted
   3. Attendance:

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Aboulmagd, Osama | Huawei Technologies Co., Ltd |
| 2 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 3 | baron, stephane | Canon Research Centre France |
| 4 | Coffey, John | Realtek Semiconductor Corp. |
| 5 | Derham, Thomas | Broadcom Corporation |
| 6 | Henry, Jerome | Cisco Systems, Inc. |
| 7 | Kim, Youhan | Qualcomm Incorporated |
| 8 | Kwon, Young Hoon | NXP Semiconductors |
| 9 | Levy, Joseph | InterDigital, Inc. |
| 10 | Lumbatis, Kurt | CommScope, Inc. |
| 11 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 12 | Naik, Gaurang | Qualcomm Incorporated |
| 13 | NANDAGOPALAN, SAI SHANKAR | Infineon Technologies |
| 14 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 15 | Qi, Emily | Intel Corporation |
| 16 | RISON, Mark | Samsung Cambridge Solution Centre |
| 17 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 18 | Smith, Graham | SR Technologies |
| 19 | Stanley, Dorothy | Hewlett Packard Enterprise |
| 20 | Sun, Bo | ZTE Corporation |
| 21 | Venkatesan, Ganesh | Intel Corporation |
| 22 | Wentink, Menzo | Qualcomm Incorporated |
| 23 | Zou, Qiyue | Facebook |

* 1. **Review REVme Agenda – 11-21/0656r0:**
     1. [https://mentor.ieee.org/802.11/dcn/21/11-21-0656-00-000m-april-may-revme-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-0656-00-000m-april-may-revme-teleconference-agenda.docx  )
     2. Draft Agenda:

1.       Call to order, attendance (<https://imat.ieee.org/attendance> ), and patent 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.      Patent, Participation and policy related slides: See slides 4-19 in <https://mentor.ieee.org/802.11/dcn/21/11-21-0182-00-0000-2nd-vice-chair-report-march-2021.pptx>

2.       Editor report – Emily QI/Edward AU

3.       Comment resolution and motions

1. **Monday April 19, 2021 – 10am – noon Eastern**
   1. Issues
      1. < >
   2. Comment resolution
      * + 1. Document 11-21/688r0 - Ganesh Venkatesan (Intel) – CIDs <>
          2. Edward Au – CID 265
2. **Monday April 26, 2021 – 10am – noon Eastern**
   1. Issues
      1. <>
   2. Comment resolution
      1. <>
3. **Monday May 24, 2021 – 10am – noon Eastern** 
   1. Issues
      1. <>
   2. Comment resolution
      1. <>

4.       AOB

5. Adjourn

* + 1. Addition of Document 11-21/688r0 - Ganesh Venkatesan (Intel) – CIDs and Edward Au – CID 265 added to agenda
    2. Updated Draft Agenda reviewed no objections to adopting it.
  1. **Editor Report** 11-21/687r0
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0684-00-000m-revme-wg-cc35-comments.xlsx>
     2. Review submission
     3. Files for review are in the members area.
     4. Full Comment File – 11-21/684r0
        1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0684-00-000m-revme-wg-cc35-comments.xlsx>
     5. Review AdHoc comment assignments:

|  |  |
| --- | --- |
| **Ad Hoc** | **Comments** |
| ED1 | 50 |
| ED2 | 130 |
| GEN | 87 |
| MAC | 229 |
| PHY | 50 |
| SEC | 58 |
| Total | 604 |

* + 1. General Distribution used:

ED1: Editorial comments from clause 1 to clause 9.

ED2: Editorial comments from clause 10 to the end, plus non-clause specified

GEN: Technical comments from clause 1 to clause 8, and Annexes.

MAC: Technical comments from clause 9 to clause 11, clause 14.

PHY: Technical comments from clause 15 to clause 25

SEC: Technical comments from clause 12 and 13.

* + 1. Questions:
       1. Comment on the schedule
          1. 11ax is expected for publication end of April.
          2. Will then see 11ay and 11ba thereafter.
       2. Thanks to Emily for her effort to get drafts in members area
       3. Request to get a “txt” for the drafts
  1. Chair noted that the Telecon Plan is to have comment resolutions focus on issues for a particular Telecon.
  2. **Comment Resolution**:
     1. Request for CIDs 598 ~ 601 12, 17, 83~89, 143, 349, 567~569, 597 to be assigned to Youhan KIM (Qualcomm).
     2. Request for time on April 26, 2021 for Edward AU (Huawei) for Editor 2 CIDs
  3. **Review doc 11-21/688r1** – Ganesh VENKATESAN
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0688-00-000m-resolutions-to-a-set-of-comments-related-to-stream-classification-service-scs.docx>
     2. Review comments suggested that the comments noted as “Accept” need to be Revised and refer to this document to see the proposed changes.
     3. CID 49 (MAC)
        1. Assigned to Genesh VENKATESAN
        2. Concern on breaking legacy devices. Existing devices would not have new count field.
        3. Next Call we can review the proposal for consensus.
        4. Need to have the proposed changes posted to the reflector to ensure a wider review.
        5. ACTION ITEM: Genesh – Update the Document and post to 802.11 Reflector (cc 802.11m) and highlight this topic in the email.
     4. CID 585 (MAC):
        1. Assigned to Ganesh. Doc 11-21/0688.
        2. 2 Status Codes with the same name.
        3. Need to have unique name per code
        4. Suggestion to add “\_AP” for code 56.
        5. Discussion on why not adding “or PCP” or to delete from description.
        6. Suggestion to add to the name for code 80 to make it more descriptive.
        7. Discussion on how to clarify the name and description for both 56 and 80.
        8. There is an urgent need to get 56 done now, so may want to divide CID.
        9. These names and codes were added in 11v, so removing one is not a good suggestion as legacy devices may have used one or the other.
        10. SCS text refers to “REQUESTED\_TCLAS\_NOT\_SUPPORTED\_BY\_AP” which is not in the table. This is the simplest fix.
        11. Is one AP related and one non-AP
            1. F11-19 and F11-20 suggest ADDTS Request is only used by a non-AP STA, and an AP uses ADDTS Reserve Request instead
     5. CID 583 (MAC)
        1. Assigned to Ganesh. Doc 11-21/0688.
        2. Review the comment
        3. Discussion on element description and field descriptions.
        4. Need to check if there are parameters that need better descriptions.
        5. Possibly the TCLAS parameters are primary in clause 6 and the MAC SAP primitives.
        6. "Classifier parameters"... is what they are called in the Tables with the format details.
        7. More work to be done.
     6. CID 584 (MAC):
        1. Assigned to Ganesh. Doc 11-21/0688.
        2. Review the comment
        3. Question on VSSEs?
           1. Maybe better to say, “no elements or subelements shall be included”. Then you can have a NOTE—The Length field is set to 2 (for the SCSID and Request Type fields).
        4. More work.
     7. CID 586 (MAC)
        1. Assigned to Ganesh. Doc 11-21/0688.
        2. Review comment
        3. Update editing instruction and comment resolutions.
     8. General Note: the document needs the CID numbers added – will extract from minutes.
  4. **Future Telecons:**
     1. Target getting all the CIDs assigned by the May interim.
     2. Next week potentially look at the comments from 802.1
        1. Need to check if there is a block of comments to review.
        2. ACTION ITEM: Michael MONTEMORRO – will present next week.
        3. Approximately CID 51-80
     3. Outstanding comments from REVmd that may need another review –
        1. ACTION ITEM: Ganesh – create a doc to address.
  5. **CID 265 (ED2)** - Edward
     1. Review comment
     2. Searchable figures may be a significant effort if we are to do it.
     3. Look for volunteer to see the value of doing the work.
     4. Number of figures not searchable –
        1. 599 figures
        2. 148 are searchable
        3. 447 not searchable and some of them would need to be redrawn.
        4. Missing source files for the S1G figures.
        5. EMF files are potentially searchable, but they would still need to be edited to make them actually searchable.
     5. ACTION ITEM: Edward – post the information on this CID to the Reflector and look for volunteers –
     6. If there are no volunteers, craft a rejection resolution.
     7. Discussion on the formatting and changes to FrameMaker that would need to be done.
  6. **Adjourn** – 11:25am ET

1. **802.11me – REVme Telecon – April 26, 2021 10:00-12:00 ET**
   1. **Called to order** by Michael Montemurro, Chair TGme at 10:07 am ET
   2. Review Patent Policy – Copyright Policy
      1. No issues noted
   3. Attendance:

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Name | Affiliation |
| 2 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 3 | baron, stephane | Canon Research Centre France |
| 4 | Bhandaru, Nehru | Broadcom Corporation |
| 5 | Bims, Harry | Bims Laboratories, Inc. |
| 6 | Coffey, John | Realtek Semiconductor Corp. |
| 7 | Congdon, Paul | Huawei Technologies Co., Ltd |
| 8 | Das, Subir | Perspecta Labs Inc |
| 9 | Derham, Thomas | Broadcom Corporation |
| 10 | Dong, Xiandong | Xiaomi Inc. |
| 11 | Fischer, Matthew | Broadcom Corporation |
| 12 | Hamilton, Mark | Ruckus/CommScope |
| 13 | Harkins, Daniel | Aruba Networks, Inc. |
| 14 | Henry, Jerome | Cisco Systems, Inc. |
| 15 | Kim, Youhan | Qualcomm Incorporated |
| 16 | Kwon, Young Hoon | NXP Semiconductors |
| 17 | Levy, Joseph | InterDigital, Inc. |
| 18 | Lu, kaiying | MediaTek Inc. |
| 19 | Lumbatis, Kurt | CommScope, Inc. |
| 20 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 21 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 22 | NANDAGOPALAN, SAI SHANKAR | Infineon Technologies |
| 23 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 24 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 25 | Qi, Emily | Intel Corporation |
| 26 | RISON, Mark | Samsung Cambridge Solution Centre |
| 27 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 28 | Stacey, Robert | Intel Corporation |
| 29 | Stanley, Dorothy | Hewlett Packard Enterprise |

* 1. **Review REVme Agenda – 11-21/0656r2:**
     1. [https://mentor.ieee.org/802.11/dcn/21/11-21-0656-00-000m-april-may-revme-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-0656-02-000m-april-may-revme-teleconference-agenda.docx)
     2. Draft Agenda:

1.       Call to order, attendance (<https://imat.ieee.org/attendance> ), and patent 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.      Patent, Participation and policy related slides: See slides 4-19 in <https://mentor.ieee.org/802.11/dcn/21/11-21-0182-00-0000-2nd-vice-chair-report-march-2021.pptx>

2.       Editor report – Emily QI/Edward AU –

3.       Comment resolution and motions

* + 1. **Monday April 26 2021 – 10am – noon Eastern**
  1. Issues
     1. <>
  2. Comment resolution
     1. Document 11-21/695r0 – Michael Montemurro (Huawei) – CIDs 51-80 (20 min)
     2. <https://www.ieee802.org/11/email/stds-802-11-tgm/msg02118.html>– Mark Rison (Samsung) – CIDs (remaining time to 1hr)
     3. Document <> - Edward Au (Huawei) – Editor 2 CIDs
     4. Feedback request - Dan Harkins – CID 587
     5. Document 11-21/688r0 - Ganesh Venkatesan (Intel) – CIDs <>

4.       AOB

5. Adjourn

* + - 1. Review draft agenda
      2. CID 587 has some feedback that we may want to consider
      3. No objection to agenda
  1. **Editor Report**
     1. Txt version of the draft has been placed in the Members area.
     2. THANKS TO Emily et. al. for getting it there.
  2. **Comment Resolution**:
  3. **Review doc 11-21/695r0 CIDs 51-80** – Michael Montemurro (Huawei)
     1. Comments on reference to 802.1D to change to 802.1QC
     2. CID 51 (GEN)
        1. Review comment
        2. Comment context reviewed.
        3. Proposed Resolution: Accept
        4. No objection – Mark Ready for Motion
     3. CID 52 (GEN)
        1. Review Comment
        2. Discussion on the way to reference and do cross-references.
        3. This is a normative reference.
        4. Discussion on if a particular reference is needed to be included.
        5. Need to determine if 11ak has a reference that was added to a particular section that is not in the current standard.
        6. ACTION ITEM: Mark HAMILTON - need to determine the reference needed for TCLAS Classifier Type 2..
        7. CID 73 is similar and has updated the reference section.
        8. Proposed Resolution: Accept
        9. No objection – Mark Ready for Motion
     4. CID 53 (GEN)
        1. Review Comment
        2. Proposed Resolution: Accept
        3. No objection – Mark Ready for Motion
     5. CID 54 (GEN)
        1. Review Comment
        2. Proposed Resolution: Accept
        3. Discussion on the Priority information in 802.1D and 802.1Q changes…
           1. This will come up in a future CID.
           2. The ISS (Internal Sublayer Service) in 802.1D and 802.1Q
           3. There may not be a problem for this one, but we need to ensure that the mapping is agreed before we get too far.
        4. Two pair of Comments for possible solution.
           1. 1 – take 802.1Q mapping
           2. 2 – Consider the old mapping as 802.11 mapping and specify it (as defined).
        5. How we resolve the CID 58 may affect how we resolve CID 54.
     6. CID 58 (MAC)
        1. Review comment
        2. Discussion on how the UP is priority is mapped.
        3. CID 66 and 67 provide the UP mapping header changes.
     7. CID 55 (GEN)
        1. – the change may not be correct without extra work.
        2. Discussion needed on the direction on the way to correct the mapping.
        3. More work will need to be done to prepare the discussion.
        4. Concern that some of the priority alignment and mapping in TGbe and possibly in WBA and the liaison work that is ongoing.
  4. **Review email in archive** – Mark RISON (Samsung)
     1. <https://www.ieee802.org/11/email/stds-802-11-tgm/msg02118.html>
     2. The email discussion was a starting point and will be put in a document after some direction is made.
     3. CID 360 (SEC)
        1. Review Comment
        2. Review context
        3. Discussion on potential change
        4. Discussion on the difference on “set to” vs “masked to”
        5. More work to be done.
     4. CID 213 (SEC)
        1. Review Comment
        2. See page 2631
        3. What is the preferred descriptor for the GTK, Is the length variable, or set to the same value or an equation?
        4. Direction to change to “Variable”
     5. CID 179 (SEC)
        1. Review Comment
        2. Concern that changes have not been validated with simulation or a real device.
        3. ACTION ITEM: Dan HARKINS – double-check if the change is valid.
     6. CID 223 (SEC)
        1. Review comment
        2. Review context.
        3. Need to Check with Menzo and Jouni on this CID.
     7. CID 208 (SEC)
        1. Review comment
        2. No resolution proposed.
        3. More Work needed,
     8. CID 214 (SEC)
        1. Review comment
        2. Discussion on the discrepancy between having UP in CCM and not in GCM.
        3. More work needed
     9. CID 395 (SEC)
        1. Review comment
        2. Similar issue to CID 214
        3. More work needed.
     10. CID 45 (SEC)
         1. Review Comment
         2. More work needed.
     11. CID 356 (SEC)
         1. Review comment
         2. Proposed Resolution: Reject – resolution text to be finalized later.
         3. If "GCM also requires a unique nonce value for each frame protected by a given temporal key.", then then how does the GCM nonce achieve this?  It just has the A2 and the PN and doesn't have e.g. the TID+Management bits that ensure uniqueness in the CCM nonce.
     12. CID 190 (SEC)
         1. Review comment
         2. No response for the CID
         3. More work needed.
     13. CID 180 (SEC)
         1. Review comment
         2. Discussion on the value of describing setting or not the same bit.
         3. More work needed.
     14. CID 335 (SEC)
         1. Review comment
         2. More work needed.
     15. CID 418 (SEC)
         1. Review Comment
         2. More work needed.
     16. All the above CIDs were brought up just for quick response, if any, and a request for everyone to review off-line.
  5. **Feedback request – CID 587** – Dan Harkins (HPE)
     1. CID 587 (SEC)
        1. Review table 12-5
        2. Review what “No action” means.
        3. Adding a column for “PMF used” is proposed change
        4. Discussion on which AKM is in the response if there are advertised policies.
        5. Discussion on what the intention of the description.
        6. Discussion on if the text change from “no action” to something more definitive.
        7. Discussion on how the AP behaviour for STAs that are violating the spec.
        8. Discussion on the various cases and potential behaviour of STA and AP.
        9. Discussion on the Table description
        10. More work offline needs to be done.
  6. **Review doc 11-21/688r0** – Ganesh VENKATESAN (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0688-02-000m-resolutions-to-a-set-of-comments-related-to-stream-classification-service-scs.docx>
     2. Update has been done to r2 since r1 was presented last week.
     3. The CID numbers have been added.
     4. CID 49 (MAC)
        1. Review comment
        2. Email to reflector to check existing implementations has been sent.
        3. Awaiting any responses.
     5. CID 585 (MAC)
        1. Review comment
        2. Limit focus to resolving the two code points.
        3. Need to have different comment to resolve the other issues.
        4. Comment 585 is a broader request, not the narrow one claimed.
        5. What we need ASAP, is that the text calls out a status code that isn't in the table, so implementers need immediate help with what to do.
        6. More work is still needed.
     6. CID 583 (MAC)
        1. Review comment and proposed changes in the submission.
        2. More work needed.
     7. CID 584 (MAC)
        1. Proposed resolution: REVISED (MAC: 2021-04-26 15:43:56Z): Make changes as shown in 11-21/0688r2 <<https://mentor.ieee.org/802.11/dcn/21/11-21-0688-02-000m-resolutions-to-a-set-of-comments-related-to-stream-classification-service-scs.docx>> for CID 584.
        2. No objection – Mark Ready for Motion
     8. CID 586 (MAC)
        1. Review status
        2. Proposed Resolution: REVISED (MAC: 2021-04-26 15:45:28Z): Make changes as shown in 11-21/0886r2 <https://mentor.ieee.org/802.11/dcn/21/11-21-0688-02-000m-resolutions-to-a-set-of-comments-related-to-stream-classification-service-scs.docx> for CID 586.
        3. No objection – Mark Ready for Motion
     9. CID 585 (MAC)
        1. Discussion on the status – is this ready for motion or not?
        2. More time is needed.
  7. **Review doc 11-21/0730r0:** Edward AU (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0730-00-000m-proposed-resolution-for-revme-cc35-comments.docx>
     2. CID 336 (ED2)
        1. Review comment
        2. Looking for direction.
        3. Discussion on the proposed change.
        4. Global change not seen as a good idea. We need to check all 293 entries to ensure correct context change.
        5. Need to reassign to MAC or GEN as this is not an editorial change.
        6. Move to GEN and assign to Commentor.
        7. ADHoc Note:

Some are not STA capabilities, and these are SME capabilities.

Better to resolve it as future amendments may have more different types of capabilities.

To define “device capabilities”?

There's also the whole issue of "device" being the implementation, or the instantiation.

How about “STA/SME capabilities”?

Reassigned to GEN and the commenter

* 1. **Adjourned 12:01pm ET**

**References:**

April 19:

* + 1. [https://mentor.ieee.org/802.11/dcn/21/11-21-0656-00-000m-april-may-revme-teleconference-agenda.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-0656-00-000m-april-may-revme-teleconference-agenda.docx  )

1. <https://mentor.ieee.org/802.11/dcn/21/11-21-0182-00-0000-2nd-vice-chair-report-march-2021.pptx>
2. <https://mentor.ieee.org/802.11/dcn/21/11-21-0684-00-000m-revme-wg-cc35-comments.xlsx>
3. <https://mentor.ieee.org/802.11/dcn/21/11-21-0684-00-000m-revme-wg-cc35-comments.xlsx>
4. <https://mentor.ieee.org/802.11/dcn/21/11-21-0688-00-000m-resolutions-to-a-set-of-comments-related-to-stream-classification-service-scs.docx>