IEEE P802.11  
Wireless LANs

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| Telecon Minutes for REVmd CRC- April 1 and 3 2020 | | | | |
| Date: 2020-04-01 | | | | |
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Abstract

Minutes for the 802.11md REVmd CRC Telecon April 1 and 3, 2020 –

R0: April 1 – 16:00-18:00 ET

1. **IEEE 802.11md REVmd CRC Telecon Wednesday April 01, 2020 16:00-18:00 ET**
   1. **Called to order at 4:03pm** by the TG Chair Dorothy STANLEY (HPE)
   2. **Review Patent and Participation Policy**
      1. No Issues noted.
   3. **Attendance:** -please log with IMAT:
      1. WebEx reported 14 on call
      2. IMAT Report
         1. Andersdotter, Amelia None - Self-funded
         2. Au, Kwok Shum Huawei Technologies Co., Ltd
         3. Coffey, John Realtek Semiconductor Corp.
         4. Derham, Thomas Broadcom Corporation
         5. Goodall, David Morse Micro
         6. Hamilton, Mark Ruckus Wireless
         7. Levy, Joseph InterDigital, Inc.
         8. Montemurro, Michael BlackBerry
         9. Qi, Emily Intel Corporation
         10. RISON, Mark Samsung Cambridge Solution Centre
         11. Rosdahl, Jon Qualcomm Technologies, Inc.
         12. Smith, Graham SR Technologies
         13. Stanley, Dorothy Hewlett Packard Enterprise
         14. Yu, Mao NXP Semiconductors
   4. **Review Agenda**: 11-20/535r0:
      1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-00-000m-2020-april-july-teleconference-agendas.docx>
      2. **The draft agenda for the teleconferences is below:**

1.       Call to order, 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 slides: See slides 5-12 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0308-00-000m-2020-march-tgmd-agenda.pptx>

c. Adhoc meeting reminders:

April 21-23 Cambridge UK – Not in person; teleconference proposal is below.

2.       Editor report – Emily QI/Edward AU

3.       Comment resolution

1. **2020-04-01 Wednesday – 4:00-6pm Eastern \*\*\*\*\*Teleconference announced with 10 day notice\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(London is +5)**
   1. Emily QI - <https://mentor.ieee.org/802.11/dcn/20/11-20-0141-15-000m-sa1-proposed-resolutions-for-editor-adhoc.doc> . CIDs 4800, 4587, 4375 – 20 minutes
   2. Mark RISON - CIDs **–** 60 minutes
2. Jon ROSDAHL – GEN CIDs – 30 minutes  
   **Teleconferences – week of April 20, approved ad-hoc meeting [assume 9 sessions in the ad-hoc, 4 sessions suggested below, recover other 5 via successive Wednesdays; could also extend duration of calls]**
   1. 2020-04-21 Tuesday 4-6pm Eastern 2 hours
   2. 2020-04-22 Wednesday 4-6pm Eastern 2 hours
   3. 2020-04-23 Thursday 4-6pm Eastern 2 hours
   4. 2020-04-24 Friday 10 am Eastern 2 hours
3. **Teleconferences from end April to July: use Weds/Fri schedule**
   1. 2020-04-29 Wednesday 4-6pm Eastern 2 hours
   2. 2020-05-01 Friday 10 am Eastern 2 hours
   3. 2020-05-06 Wednesday 4-6pm Eastern 2 hours
   4. 2020-05-08 Friday 10 am Eastern 2 hours
   5. 2020-05-13 Wednesday 4-6pm Eastern 2 hours
   6. 2020-05-15 Friday 10 am Eastern 2 hours
   7. 2020-05-20 Wednesday 4-6pm Eastern 2
   8. 2020-05-22 Friday 10 am Eastern 2 hours
   9. 2020-05-27 Wednesday 4-6pm Eastern 2 hours
   10. 2020-05-29 Friday 10 am Eastern 2 hours
   11. 2020-06-03 Wednesday 4-6pm Eastern 2 hours
   12. 2020-06-05 Friday 10 am Eastern 2 hours
   13. 2020-06-10 Wednesday 4-6pm Eastern 2 hours
   14. 2020-06-12 Friday 10 am Eastern 2 hours
   15. 2020-06-17 Wednesday 4-6pm Eastern 2 hours
   16. 2020-06-19 Friday 10 am Eastern 2 hours
   17. 2020-06-24 Wednesday 4-6pm Eastern 2 hours
   18. 2020-06-26 Friday 10 am Eastern 2 hours
   19. 2020-07-01 Wednesday 4-6pm Eastern 2 hours
   20. 2020-07-03 Friday 10 am Eastern 2 hours
   21. 2020-07-08 Wednesday 4-6pm Eastern 2 hours
   22. 2020-07-09 Friday 10 am Eastern 2 hours

4.       AOB

* Review TGmd schedule –
* roughly 400 comments remaining;
* target D 4.0 in July? D5.0 to RevCom
* July/Aug: 15-day recirc D4.0
* Aug-Sept comment resolution D4.0
* Sept D5.0 WG approval
* Sept – D5.0 Recirc/Unchanged recirc
* 6 Oct – 802 EC Approval, Draft TGme PAR (next revision)
* 13 October – Draft to RevCom
* 2020 Dec RevCom/SASB

5. Adjourn

* + 1. No objection to the planned agenda:
  1. **Editor Report:** Emily QI
     1. Editors are still working on updating the draft.
  2. **Review doc 11-20/0141r16** Emily QI (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0141-16-000m-sa1-proposed-resolutions-for-editor-adhoc.doc>
     2. CID 4587 (EDITOR)
        1. Review Comment
        2. Review submission discussion.
        3. Review proposed changes
        4. Proposed Resolution: Revised.

Lowercase "Neighbor report"(s) at 191.46, 1145.39, 3686.27.

Lowercase "Neighbor Report"(s) at 3912.60.

Change "neighbor report data" to "neighbor report" at 458.35.

Change "Neighbor Report Elements" to "Neighbor Report elements" at 1527.29, and "a Neighbor Report frame" to "a Neighbor Report Response frame" on next line.

Note to the commenter: neighbor report is not a measurement type of Table 9-125. Therefore, the rules won’t apply to neighbor report.

* + - 1. No Objection – Mark Ready for Motion
    1. CID 4375 (EDITOR) REVISIT
       1. Review comment
       2. Review submission discussion
       3. Review history of the changes related to this CID.
       4. The prior resolution from earlier in March would be replaced with the updated Resolution.
       5. Proposed Resolution: Revised.

Change "Integrity Group key” to "integrity group key" in clause 6, 3 instances.

Change ", or beacon integrity group temporal key" to ", or beacon protection key" in clause 6, 3 instances.

Change the title of 12.7.1.7 “Beacon integrity group temporal key (BIGTK) hierarchy” to “Beacon protection key hierarchy”.

At 1165.22 (in 9.4.2.47), Change “The GTK subelement contains the group temporal key” to “The GTK subelement contains the GTK”

In 9.6.13.20, make following changes:

Change “The GTK subelement contains the Group Key” to “The GTK subelement contains the GTK”, at 1610.15

Change “The IGTK subelement contains the Integrity GTK” to “The IGTK subelement contains the IGTK”, at 1610.45, 1166.5.

Change “The BIGTK subelement contains the beacon integrity group temporal” to “The BIGTK subelement contains the BIGTK”, at 1611.4.

Note to the commenter: In Clause 6, the context for this is "Defines whether this key is a group key, pairwise key, PeerKey, Integrity Group key, or beacon protection key" in the Description column. These are generic references to the types of keys that are being operated on with the particular MLME primitive. "Integrity group key" seems more consistent in this context when comparing to "group key" and "pairwise key". The same logic applies 12.7.1.5 . This subclause describes the key hierarchy for integrity group keys; not for a specific IGTK.

* + - 1. No Objection – Mark Ready for Motion – Replacing previous Resolution.
    1. CID 4800 (EDITOR) REVISIT
       1. Review Comment
       2. Review previous Resolution.
       3. Review reason for revisiting
       4. Discussion on the differences with co-located vs collocated vs colocated.
       5. Straw Poll: Prefer
          1. Option A: previous Resolution: Throughout the draft, replace “collocated” (254 occurrences) and “colocated” (2 occurences) with “co-located”.
          2. Option B:

No changes to “Co-Located BSSID”.  no change to “Co-located”

No changes to “collocated interference”.  no change to “collocated”

Replace 3 instances of “colocated” with either “collocated” or “co-located”.

At 1484.13: change to “The Co-Located BSSID List subelement is present when there is at least one other BSS that is co-located within the same physical device as the reporting BSS.”

At 3907.17: change to “supporting collocated interference reporting. The capability is disabled, otherwise."

At 3907.31: change to “support collocated interference reporting is enabled.”

* + - * 1. Resolution:

A:6 B:5 Abstain: 1

* + - 1. No clear consensus – we can proceed with what we had in the proposed resolution.
      2. Secretary to include Results of Straw Polls that got us to this point:
         1. From 11-20/0261r0 – Sunrise, FL:

Motion #161 –– Failed –

2.6.8.5 Proposed Resolution: Revised.

Change “co-located” to “colocated”, 13 instances.

Change “Co-Located” to “Colocated”, 22 instances.

Change “Co-located” to “Colocated”, 1 instance.

* + - * 1. From 11-20/262r1 – Telecon March 13:

2.7.2.7 Straw Poll: Can you accept the spelling of the word?

2.7.2.7.1 A: Colocated

2.7.2.7.2 B: Co-located

2.7.2.7.3 C: Collocated

2.7.2.7.4 You have Multiple options

2.7.2.7.5 Results: A: 5 B: 4 C: 3

2.7.2.8 Slight preference to one “l” and we then discussed usages.

2.7.2.9 Straw Poll: Do you prefer the spelling of this word?

2.7.2.9.1 A: Colocated

2.7.2.9.2 B: Co-located

2.7.2.9.3 Results: A: 1 B: 7

2.7.2.10 Proposed Resolution: Accept; Note to editor, add this exception to the Editor's Guidelines.

* + 1. A Motion on the Accept resolution will be presented for consideration in future.
  1. **Review doc 11-20/435r1** Mark RISON (Samsung)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-01-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
     2. CID 4499 (MAC) REVISIT
        1. Review Comment
        2. Review submission discussion.
        3. In 9.5.6 – suggest change isMaster to isController (5x).
        4. In 9.5.6 – suggest change “master of the data” to “controller of the data”.
        5. Review context in the Draft.
        6. Discussion on if PC terms should be avoided or not.
        7. Concern that Master-Slave terminology may creep back in if we allow Master to remain.
        8. Straw Poll: Support the direction of resolution proposed in 11-20/262r1:
           1. Results: Yes:2 No:5 Abstain: 4
        9. No support for this Resolution -- keep the existing resolution and restore to Mark Ready for Motion.
     3. CID 4591 (EDITOR)
        1. Review comment
        2. Review the submission discussion and proposed changes.
        3. Delete one set of proposed changes.
        4. Proposed Resolution: Revised; incorporate the proposed changes for CID 4591 in doc 11-20-435r2 <<https://mentor.ieee.org/802.11/dcn/20/11-20-0435-02-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>>
        5. No objection – Mark Ready for Motion.
     4. CID 4679 (EDITOR) REVISIT
        1. Review Comment
        2. Review submission discussion.
        3. Discussion on what should be in the frame description
        4. Motion #162: CID 4679 Resolution: REJECTED (EDITOR: 2020-02-20 10:30:19Z). Reason: The description of Address fields in 9.3.3 are needed as they are specific to Management frames.
        5. Discussion on the 3 alternatives presented.
        6. Alternative 1:
           1. Delete “For example, receiver address matching is always performed on the contents of the Address 1 field in received frames, and the receiver address of CTS and Ack frames is always obtained from the Address 2 field in the corresponding RTS frame, or from the frame being acknowledged.” in 9.2.4.3.1.
        7. Alternative 3:
           1. Change “For example, receiver address matching is always performed on the contents of the Address 1 field in received frames, and the receiver address of CTS and Ack frames is always obtained from the Address 2 field in the corresponding RTS frame, or from the frame being acknowledged.” in 9.2.4.3.1 to “Specifically, the Address 1 field in received frames always identifies the receiver(s) of the frame, and the Address 2 field in received frames, where present, always identifies the transmitter of the frame.”
        8. Straw Poll:

1. No change – current rejection
2. Alternate 1
3. Alternate 3
4. Abstain
   * + 1. Result: A:5 B: 3 C: 1 Abstain: 3
       2. Will retain the current rejection.
     1. CID 4689 (EDIOTR) REVISIT
        1. Review comment history
        2. Review submission Discussion.
        3. Motion #162 – CID 4689 Resolution: REJECTED (EDITOR: 2020-02-20 10:29:29Z). Reject Reason: In 9.4.3, subelements are within an element. In 9.6.7.37 and 9.6.7.38, subelements are within a field. Therefore, cannot change t o refer to 9.4.3 in 9.6.7.37 and 9.6.7.38.
        4. Straw Poll:
           1. Retain Rejection
           2. Update Resolution
           3. Abstain
        5. Results: A:6 B:4 C:2
        6. Will maintain the current resolution.
     2. CID 4809 (EDITOR) REVISIT
        1. Reviewed history
        2. Motion 167 CID 4809 resolution: Accept: “Delete "received" (and change "a" to "an" as appropriate) at P1589L40, P1590L53, P1592L56, P2180L1, P2482L30, and P2482L39.”
        3. Review proposed changes.
        4. All the changes were made, but there are some additional changes that need to be made.
        5. A separate motion will be made to incorporate the additional changes.
           1. The Text will be pulled from 11-20/435r2 and include in the motion text.
        6. We will not change the existing CID resolution.
        7. Concern that the changes make the statement much broader than originally intended.
        8. Discussion on Respond after a receipt.
        9. ACTION ITEM: Dorothy to send the Reflector for comment and feedback
   1. **GEN CIDS:**
      1. GEN comments on April 1, 2020 REVmd CRC telecon (Jon ROSDAHL (Qualcomm), from the database):
      2. CID 4765 (GEN):
         1. Update the resolution (prior to motion), to add in classes 128, 129 and 130, with the same change from “E-5” to “E-6”.
         2. No objections.
         3. Peter ECCLESINE has posted an updated document, 11-20/335r1 (<https://mentor.ieee.org/802.11/dcn/20/11-20-0335-01-000m-resolution-for-sa1-comment-4765.docx> >), with that addition.
         4. Updated the resolution. Revised. In Table E-4, in each of the circled entries, replace “E-5-” with “E-6-”. See doc 11-20/335r1: <<https://mentor.ieee.org/802.11/dcn/20/11-20-0335-01-000m-resolution-for-sa1-comment-4765.docx> >
         5. Ready for motion.
      3. CID 4114 (GEN):
         1. Proposed ACCEPTED (GEN: 2020-04-01 21:40:38Z).
         2. No objection.
         3. Ready for motion.
      4. CID 4005 (GEN):
         1. Consider accepting and changing the year of 802.11 to be 2016.
         2. Suggest just deleting the year.
         3. Noted that in Annex C, referenced must have the year. Editors fix these up at time of publication.
         4. Suggest we put in some sort of a “tag” so that these are easy to find, and nothing gets missed at publication.
         5. Suggest we just delete the references that are to 802.11 clauses. Most of the entries don’t have the REFERENCE, do we really need that?
         6. Is this REFERENCE really to the correct table?
         7. Action Item: Jon will work off-line with the Editors on a resolution.
   2. **Review Teleconference schedule**
      1. Review existing assignments
      2. Review proposed new telecons
      3. Propose to add Tuesday 4-21 and Thursday 4-23 to add to replace AdHoc that was cancelled.
   3. **Review TG Schedule**

* We had targeted May to be done. We may be lucky for July.
* Review TGmd schedule – roughly 400 comments remaining; target D 4.0 in July? D5.0 to Revcom
* July/Aug: 15-day recirc D4.0
* Aug-Sept comment resolution D4.0
* Sept D5.0 WG approval
* Sept – D5.0 Recirc/Unchanged recirc
* 6 Oct – 802 EC Approval, Draft TGme PAR (next revision)
* 13 October – Draft to RevCom
* 2020 Dec RevCom/SASB
  1. **Adjourned at 4:02pm**

**References:**

April 1:

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0308-00-000m-2020-march-tgmd-agenda.pptx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-00-000m-2020-april-july-teleconference-agendas.docx>
3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0141-16-000m-sa1-proposed-resolutions-for-editor-adhoc.doc>
4. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-01-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
5. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-02-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0335-01-000m-resolution-for-sa1-comment-4765.docx>