IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Minutes for REVme Telecon November 20, 2023 | | | | |
| Date: 2023-11-20 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Stephen McCann | Huawei Technologies Co., Ltd | Southampton, UK |  | stephen.mccann@ieee.org |

Abstract

Minutes for the TGme (REVme) Telecon for 20th November, 2023

1. **TGme (REVme) Telecon –Wednesday, November 20, 2023, at 10:00-12:00 ET**
   1. **Called to order** 10:02 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
   2. **Introductions of other Officers present:**
      1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
      2. Vice Chair - Mark RISON (Samsung)
      3. Editor - Emily QI (Intel)
      4. Editor - Edward AU (Huawei)
      5. Secretary pro-tem – Stephen MCCANN (Huawei)
   3. **Telecon Attendance:**
      1. IMAT Reported**:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Derham, Thomas | Broadcom Corporation |
| 2 | Halasz, David | Morse Micro |
| 3 | Henry, Jerome | Cisco Systems, Inc. |
| 4 | Kim, Youhan | Qualcomm Technologies, Inc. |
| 5 | Malinen, Jouni | Qualcomm Technologies, Inc |
| 6 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 7 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 8 | Mukkapati, Lakshmi Narayana | Wi-Fi Alliance |
| 9 | Patwardhan, Gaurav | Hewlett Packard Enterprise |
| 10 | Qi, Emily | Intel |
| 11 | RISON, Mark | Samsung Cambridge Solution Centre |
|  |  |  |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
     1. No issues noted.
  2. **Review Agenda:**
  3. <https://mentor.ieee.org/802.11/dcn/23/11-23-2103-00-000m-november-january-teleconference-agenda.docx>
     1. Proposed 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
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:**

i. By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

c.**Participation and policy related (including Patent and Copyright) slides: See slides 9-20 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-2139-00-0000-2nd-vice-chair-report-january-2023.pptx>

d.**Agenda Approval**

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

3.       **Comment resolution**

1. Review updates to CID 6419 (GEN), CID 6483 (SEC), and CID 6338 (MAC) - Chair
2. CID 6018, 6028, 6029 - doc 11-23/2034 - Qi (Intel)
3. CID 6016, 6017 (others) - doc 11-23/2035 - Qi (Intel)
4. CID 6087 – doc 11-23-/1856 – Malinen (Qualcomm)
5. CID 6032, 6033 - doc 11-23/2074 - Halasz (Morse Micro)
6. CID 6041 - doc 11-23/2058 - Gidvani (Samsung)
7. CIDs 6077, 6078 - doc 11-23/1903 - Derham (Broadcom)
8. CIDs 6076, 6079, 6607 - doc 11-23/1904 - Hart (Cisco)

5.       **AOB**

6. **Adjourn**

* + 1. No objection to approving the agenda.
  1. **Editor Report:**  Emily QI (Intel)
     1. There is nothing to report since the last meeting (Thursday 16th November 2023).
     2. Ongoing updates are in progress.
  2. **Review various CIDs:** Michael MONTEMURRO (Huawei)
     1. CIDs 6483 (SEC), 6419 (GEN)
        1. Review Comments
        2. Revised. In 12.7.6.2, in the Processing for PTK generation bullet list item (a), add after "Generates a new nonce SNonce", ", if no SNonce has yet been generated for this 4-way handshake. The same SNonce is reused within this 4-way handshake until a valid message 3 has been received."
        3. No objection – Mark Ready for Motion
     2. CID 6338 (MAC)
        1. Review Comment
        2. REJECTED (MAC: 2023-11-14 21:09:14Z): The comment does not provide sufficient detail to determine changes that would satisfy the commenter.
        3. No objection – Mark Ready for Motion
  3. **Review doc 11-23/2034r1** – Emily QI (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/23/11-23-2034-01-000m-proposed-resolution-for-sb1-cid-6018-and-more.docx>
     2. CID 6018 (MAC), 6029 (MAC)
        1. Review Comments.
        2. REVISED (MAC: 2023-11-20 15:16:52Z): Incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/11-23-2034-01-000m-proposed-resolution-for-sb1-cid-6018-and-more.docx for CIDs 6029 and 6018, under "Proposed Changes".
        3. No objection – Mark Ready for Motion

* 1. **Review doc 11-23-2035r1** – Emily QI (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/23/11-23-2035-01-000m-proposed-resolution-for-sb1-cid-6016-and-more.docx>
     2. CID 6017, 6016, 6169 (MAC)
        1. Review Comments.
        2. Q: There are several use cases here. I thought they are for TDLS and peer to peer links, which are non-infrastructure?
        3. A: Yes, they are regarding non-infrastructure BSSes.
        4. Q: But there’s nothing here that effects an ESS.
        5. A: Yes.
        6. Q: It is very confusing.
        7. A: They indicate either non-infrastructure channel switch or a capability notification.
        8. Q: Are these values used to indicate a new capability?
        9. A: The values are supposed to indicate the capability of the new band.
        10. Q: There is nothing to show which values are used and when they are use. It all appears to be optional.
        11. A: If nothing changes, then these values do not need to be included
        12. C: Some of the these fields are not included for 6 GHz channel.
        13. Q: When exactly are these values transmitted. Is it before the switch, or after? Did we decided to add a note explaining this?
        14. A: No, as we decided that such a note is not necessary.
        15. Q: Is there some text to explain that there is only one capability field?
        16. A: Yes, that is one of the changes within this text.
        17. Chair: Remember that there will not be any motions until December 15th.
        18. C: I don’t think this is ready for motion just yet.
        19. Proposed Resolution: CID 6596 (ED2): Revised. At 3984.12, replace  
            “Table 9-190” with “Table 9-228 and make sure that the cross reference (i.e., the hot link) of Table 9-228 is added.
        20. Chair: :Let’s revisit this in the December ad-hoc.
        21. More work required. Bring back at ad hoc. Members requested to review <https://mentor.ieee.org/802.11/dcn/23/11-23-2035-01-000m-proposed-resolution-for-sb1-cid-6016-and-more.docx>
  2. **Review doc 11-23-1856r2** – Jouni MALINEN (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/23/11-23-1856-02-000m-assortment-of-sa-ballot-comment.docx>
     2. CID 6087 (MAC)
        1. Review Comment.
        2. For 6 GHz band channels, clause 12 disallows certain legacy solutions to be used, as security should be moving forward. Unfortunately this has caused issues with multi-link devices (MLDs).
        3. C: I understand that MBSSID allows you to override RSNE, so perhaps this solution can be extended to address the same issue.
        4. Chair: I’m going to close the queue at this point, as I don’t want this conversation to occupy the rest of today’s meeting.
        5. C: There are issues with MBSSID that would need to be updated for 11be.
        6. C: I think making the change in 802.11 is better than making it in within the Wi-Fi Alliance.
        7. C: I can see that MBSSID is a reasonable solution, but vendors seem to struggle to implement it correctly. However I think this solution in this submission is a better direction to work in.
        8. C: Regarding MBSSID, I would prefer to avoid that solution.
        9. C: Perhaps comments can be provided to be looked at during the ad-hoc.
        10. More work required. Bring back at the December ad hoc.
  3. **Review doc 11-23-2074r1** – Dave HALASZ (Morse Micro)
  4. <https://mentor.ieee.org/802.11/dcn/23/11-23-2074-00-000m-cids6032-6033.docx>
     1. CID 6032 (MAC)
        1. Review Comment.
        2. This comment is looking at S1G Page Slicing.
        3. C: Can we change the word “span over” to “span”?
        4. REVISED (MAC: 2023-11-20 16:17:54Z): After line 41 of page 2292, add the following paragraph:
        5. “The page period indicates the number of beacon intervals between successive beacons that carry the Page Slice element for the associated page. Transmission of page slices of a page can span multiple DTIM periods.”
        6. No objection – Mark Ready for Motion
     2. CID 6033 (MAC)
        1. Review Comment
        2. Q: What does an S1G STA do with a DTIM element? What is the requirement on the STA?
        3. A: I think some additional text is required to deal with this.
        4. Q: If this requirement is added for an S1G STA, what is special about it?
        5. A: You could have multiple TIMs, whereas for a non S1G STA there is only one. The page slice number is special.
        6. C: STAs should use the TIM page index first and then do the processing.
        7. Q: Does the index indicate a per page number?
        8. A: It doesn’t matter.
        9. C: So this should be explained in the text.
        10. More work required. Bring back on December 1st.
  5. **Review doc 11-23-2058r0** – Ravi GIDVANI (Samsung)
  6. <https://mentor.ieee.org/802.11/dcn/23/11-23-2058-00-000m-dl-sounding-options.pptx>
     1. CID 6041 (MAC)
        1. Review Comment.
        2. Q: There are lots of questions here. What does “too frequently” mean for sounding?
        3. A: Every TXOP.
        4. Q: When is the beamforming not working?
        5. A: Sometimes the beamformed PPDUs are not being received correctly. You can also partially disable beamforming.
        6. Q: On the software level, is the beamformer using the same MCS?
        7. A: It’s not clear
        8. C: For Wi-Fi 6, a STA needs to be a beamformee.
        9. C: I agree that the disable bit is not the best idea. I think this issue should be discussed within 11bn.
        10. More work required. Bring back at the ad-hoc. Also post to reflector.
  7. **Review doc 11-23-1903r2** – Thomas DERHAM (Broadcom)
  8. <https://mentor.ieee.org/802.11/dcn/23/11-23-1903-02-000m-reginfo-back-compatibility-for-6-ghz-lpi-and-standard-power.docx>
     1. CID 6078 (PHY)
        1. Review Comment.
        2. Revised. Incorporate the changes in <https://mentor.ieee.org/802.11/dcn/23/11-23-1903-02-000m-reginfo-back-compatibility-for-6-ghz-lpi-and-standard-power.docx>
        3. No objection – Mark Ready for Motion
  9. **Review doc 11-23-1904r6** – Brian HART (Cisco)
  10. <https://mentor.ieee.org/802.11/dcn/23/11-23-1904-06-000m-6ghz-indoor-sp-ap-tpe-and-connectivity-signaling.docx>
      1. CID 6076 (PHY)
         1. Review Comment.
         2. C: Regarding the country element, I need some more time to think about it please.
         3. Q: What about indoor APs?
         4. A: This is option “Connectivity With Indoor AP” or “Connectivity With Standard Power AP”. The main goal is connectivity. However, perhaps we should add an “or” statement to Table 9-xx3 in your submission?
         5. Q: Regarding the table, can a STA can connect to an LPI?
         6. A: Yes, as this is an indoor AP.
         7. Revised: Incorporate the changes in <https://mentor.ieee.org/802.11/dcn/23/11-23-1904-07-000m-6ghz-indoor-sp-ap-tpe-and-connectivity-signaling.docx>.
         8. No Objection – Mark Ready for Motion - separate motion requested. Will motion on Dec 15.
  11. **Adjourned at 12:00pm ET.**

**References:**

* 1. <https://mentor.ieee.org/802.11/dcn/23/11-23-2103-00-000m-november-january-teleconference-agenda.docx>
  2. <https://mentor.ieee.org/802.11/dcn/23/11-23-2034-01-000m-proposed-resolution-for-sb1-cid-6018-and-more.docx>
  3. <https://mentor.ieee.org/802.11/dcn/23/11-23-2035-01-000m-proposed-resolution-for-sb1-cid-6016-and-more.docx>
     1. <https://mentor.ieee.org/802.11/dcn/23/11-23-1856-02-000m-assortment-of-sa-ballot-comment.docx>
  4. <https://mentor.ieee.org/802.11/dcn/23/11-23-2074-00-000m-cids6032-6033.docx>
  5. <https://mentor.ieee.org/802.11/dcn/23/11-23-2058-00-000m-dl-sounding-options.pptx>
  6. <https://mentor.ieee.org/802.11/dcn/23/11-23-1903-02-000m-reginfo-back-compatibility-for-6-ghz-lpi-and-standard-power.docx>
  7. <https://mentor.ieee.org/802.11/dcn/23/11-23-1904-06-000m-6ghz-indoor-sp-ap-tpe-and-connectivity-signaling.docx>