IEEE P802.11  
Wireless LANs

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| Minutes REVmd - August Telecons | | | | |
| Date: 2018-08-24 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jon Rosdahl | Qualcomm Technologies, Inc. | 10871 N 5750 W  Highland, UT 84003 | +1-201-492-4023 | jrosdahl@ieee.org |
|  |  |  |  |  |

Abstract

Minutes for the IEEE 802.11md “REVmd” for the August 10 and 24 2018 Telecon

R0: August 10th Telecon

R1: August 24th Telecon

Teleconferences are subject to applicable policies and procedures, see below.

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•       IEEE Code of Ethics

–       <http://www.ieee.org/about/corporate/governance/p7-8.html>

•       IEEE Standards Association (IEEE-SA) Affiliation FAQ

–       <http://standards.ieee.org/faqs/affiliation.html>

•       Antitrust and Competition Policy

–       <http://standards.ieee.org/resources/antitrust-guidelines.pdf>

•       IEEE-SA Patent Policy

–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>

–       [https://development.standards.ieee.org/myproject/Public//mytools/mob/loa.pdf](http://standards.ieee.org/board/pat/pat-slideset.ppt)

–       <http://standards.ieee.org/board/pat/faq.pdf>

–       <http://standards.ieee.org/board/pat/pat-slideset.ppt>

•       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)

–       <http://www.ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf>

•       IEEE 802 LMSC Chair's Guidelines (Approved 09 Mar 2018)

–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-26-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>

•       Participation in IEEE 802 Meetings

–       <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>

•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)

–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-21-0000-802-11-operations-manual.docx>

1. **802.11md - REVmd – Telecon, Friday 10 August 2018, 10:00- 12:00 ET**
   1. **Call to Order** at 10:03 ET by the TG Chair, Dorothy STANLEY (HPE)
   2. **Attendance:**
      1. Jon ROSDAHL (Qualcomm)
      2. Dorothy STANLEY (HPE)
      3. Emily QI (Intel)
      4. Mark HAMILTON (ARRIS/Ruckus)
      5. Mark RISON (Samsung)
      6. Michael MONEMURRO (Blackberry)
   3. **Review of Patent Policy**
      1. **Patent Policy: Ways to inform IEEE:**
         1. Call for essential patents – No comments.
      2. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   4. **Agenda Review – 11-18/1351r7**
      1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-07-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>

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.  Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>

2.   Editor report – Emily QI (Intel)

a.       Editor report document, 11-17-920

b.      Comments received LB 232 are here: 11-18-611

3.   Comment resolution:

**2018-8-10**

1. Additional ESP Gen CIDs: 1049, 1050, 1051, 1058, 1059, 1060, 1052, see 11-18-1375r1
2. Mike MONTEMURRO CIDs
3. Edward AU – Editor2 CIDs; 11-18-1367
4. Sigurd S 11-18-701 CIDs
5. Additional CIDs as available

4.  AOB:

5. Adjourn

* + 1. The above Agenda was the result of identifying who was ready for today – See R8 for approved agenda document
       1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-08-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>
  1. **Editor Report**
     1. Review of D1.3 has been posted to members area
     2. Comment Spreadsheet 11-18/611r7 is current spreadsheet
        1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0611-07-000m-revmd-wg-ballot-comments.xls>
     3. Thanks to Reviewers for preparing D1.3
     4. Working on D1.4 – Will roll in 11ak and will be ready in about 1.5 weeks.
     5. Thanks to Emily for Hosting AdHoc last week.
  2. **Review doc 11-18-1375r1** Matthew Fischer (Broadcom) – presented by the Chair, Dorothy STANLEY (HPE)
     1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1375-01-000m-lb232-cr-esp-bis.docx>
     2. Review Document
        1. The updated doc with the new CIDs does not make changes other than what was proposed previously.
        2. CID 1049, 1050, 1051, 1058, 1059, 1060 (GEN)
           1. Review proposed changes
           2. Proposed Resolution: CID 1049, 1050, 1051: Revise – TGmd editor to make changes as shown in 11-17/1192r23 for D1.2 subclause 6.3.102.2.2 and 6.3.102.3.2 which modify the wording of the use of the terms cited by the commenter while noting that the entries in the column with the label “Description” do in fact, provide a definition of the cited parameters. The terms are not changed to uplink and downlink, as the primitive might still be used for cases when there is ambiguity in the meaning of the directions up and down.
           3. Proposed Resolution CID 1058 and 1059: Revise – TGmd editor to make changes as shown in 11-17/1192r23 for D1.2 subclause 6.3.102.2.2 and 6.3.102.3.2 which modify the wording to make a correction similar to the one suggested by the commenter.
           4. Proposed Resolution CID 1060 (GEN): Revise – TGmd editor to make changes as shown in 11-17/1192r23 for D1.2 subclause 6.3.102.2.2 and 6.3.102.3.2 which modify the wording to make a correction similar to the one suggested by the commenter. The terms are not changed to uplink and downlink, as the primitive might still be used for cases when there is ambiguity in the meaning of the directions up and down.
  3. PHY CIDs – Mike MONTEMURRO
     1. CID 1067 (PHY)
        1. Pending a submission from Emily QI
     2. CID 1057 (PHY)
        1. Commenter has withdrawn the comment
        2. Mark ready for motion
     3. CID 1056 (MAC)
        1. Commenter has withdrawn the comment
        2. Mark ready for motion
     4. CID 1393 (PHY)
        1. Review comment
        2. Propose to correct units
        3. It also clarifies which Join to use.
        4. Proposed Resolution: Accept
        5. Mark Ready for Motion
     5. CID 1521 (PHY)
        1. Previously we marked rejected but we have not motioned it.
        2. Review to ensure process completed.
        3. It is an Annex G comment.
        4. Review minutes from April Adhoc: 11-18/680r0
           1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0680-00-000m-minutes-revmd-adhoc-april-2018-ft-lauderdale.docx>
           2. Quote:
     6. CID 1521 (PHY)
        1. Review comment
        2. Review 3992.29 for context.
        3. Changing only one “These frames” seems to be unnecessary.
        4. Discussion on if the change to “These Data Frames require acknowledgment” is a good thing or not.
        5. The location is a specific exchange sequence acknowledgement definition, not a whole list of all possible acknowledgement required frame exchanges.
     7. CID 1521 (PHY)
        1. Review proposed change
        2. Discussion on the point we ended up with the discussion just prior to lunch. Deleting the comment text was proposed, rather than adding “Data”.
        3. There is not enough consensus to make a change at this time.
        4. Proposed Resolution: Rejected – the current text is unambiguous and accurate. The cited text is a comment and additional precision is not necessary.
        5. No objection – Mark Ready for Motion
        6. There was discussion on the minutes and the notes to determine if this was a complete and accurate response.
        7. Comment that we need to identify that it is the Data Frames being identified.
        8. After the discussion, no objection to change proposed resolution to Accept.
        9. Change Resolution to Accept
        10. Mark Ready for Motion
  4. **Review Document 11-18/1367r0** Edward AU (Huawei) presented by the Chair, Dorothy STANLEY (HPE)
     1. Edward was not able to attend – presented by Dorothy.
     2. <https://mentor.ieee.org/802.11/dcn/18/11-18-1367-00-000m-revmd-lb232-editor2-ad-hoc-related-comment-resolutions.docx>
     3. CID 1038 (EDITOR2)
        1. Review comment
        2. Proposed Resolution: Revised; The OFDM vectors are removed and the DMGEncodingExamples.zip file embedded in the IEEE 802.11 Working Group document is now updated as 11-12/0751r1 at <https://mentor.ieee.org/802.11/dcn/12/11-12-0751-01-00ad-dmg-encoding-examples.docx.>

Note to editor: CID 1037 is similar, and the resolution to 1037 was approved in July 2018, Motion 49.

* + - 1. Mark Ready for Motion
    1. CID 1070 (EDITOR2)
       1. Review Comment
       2. Review Context
       3. Discussion on what the titles should be changed.
    2. Proposed Resolution: **Revised;** Change the title of clause 10.4 to “MSDU and MMPDU fragmentation”. And Change the title of clause 10.5 to “MSDU and MMPDU defragmentation”.
    3. Mark ready for Motion
    4. CID 1072 (EDITOR2)
       1. Review Comment
       2. Review Context and proposed changes
       3. Discussion on keeping “procedure” rather than deleting as proposed.
       4. Adjustments to the proposed changes were made and will be in R1 of the document.
       5. P3674.24 (d1.2) there is another instance of *“synchronization (Sync)” with “sync”* that should be made in second column.
       6. P1782.63, “Sync frame” to “sync frame”
       7. Note that this is not a “frame” name, but rather an upper layer construct.
       8. several instances on P2186 change “Sync frame” to “sync frame”
       9. line 27, 31 (2x), 36, 40, 41, 43, 51, 53, 55, 61, 62, 63 (2x) “Sync” to “sync”
       10. P2187.14 “Sync” to “sync”
       11. Discussion on if we should change packet to frame or visa-versa.
       12. More discussion on the Packet-frame issue is needed, in different clauses, it may need to switch a different direction.
       13. Propose to let it be on the next letter ballot, or when a submission is ready (whether before or after Sept meeting).
       14. Proposed resolution: Revise incorporate the changes for 1072 in doc 11-18/1367r1 < <https://mentor.ieee.org/802.11/dcn/18/11-18-1367-01-000m-revmd-lb232-editor2-ad-hoc-related-comment-resolutions.docx> >
       15. Mark ready for motion
    5. CID 1084 (EDITOR2)
       1. Review comment
       2. Review the proposed change
       3. Adjustments to the proposed change were made to keep changes consistent.
       4. Proposed Resolution: Revise incorporate the changes for CID 1084 in doc 11-18/1367r1 < <https://mentor.ieee.org/802.11/dcn/18/11-18-1367-01-000m-revmd-lb232-editor2-ad-hoc-related-comment-resolutions.docx> >
       5. Mark ready for Motion
  1. **Review doc 11-18/0701r1** Sigurd Schelstraete (Quantenna) (Presented by Dorothy STANLEY)
     1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0701-01-000m-cids-1388-and-1359.docx>
     2. CID 1359 (PHY)
        1. Review comment
        2. Not yet resolved – still open assigned to Sigurd
        3. Reviewed Minutes from May interim (11-18/616r0) on this CID
           1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0616-00-000m-minutes-revmd-may-2018-warsaw.docx>
           2. Quote:
     3. CID 1359 (PHY)
        1. Review Comment
        2. Review proposed change
        3. Discussion on the value of the NOTE being in the diagram as opposed to outside the diagram.
        4. Suggestion to add the new sentence as an addition
        5. The NOTE should say that an STBC Block is present even when not used.
        6. Proposed resolution: Change the paragraph starting at line 38, page 2754 as shown in 802.11-18/0701r0.
        7. More fine tuning to be done.
        8. More discussion on the resolution.
        9. Proposed Resolution: REVISED (PHY: 2018-08-10 15:26:52Z) Incorporate the changes indicated for CID 1359 in <https://mentor.ieee.org/802.11/dcn/18/11-18-0701-01-000m-cids-1388-and-1359.docx>
        10. Mark ready for Motion
     4. CID 1388 (PHY)
        1. Motioned in #52 as a Rejected CID during the May Interim in Warsaw.
        2. Review Situation, there is still a concern on this CID
        3. Review 2748.35 (d1.2)
        4. Request to defer until we get more opinion and input on this CID.
        5. The Chair wants the discussion that was held in email be incorporated into the submission for discussion.
        6. Review the previous Email exchange from the reflector:
           1. <http://www.ieee802.org/11/email/stds-802-11-tgm/msg01369.html>
        7. ACTION ITEM #1: Mark RISON – prepare a submission to put all the proposed changes for CID 1388 in context in one submission and announce to reflector.
        8. Note that CID 1388 has been motioned, so without a submission, it will default to being done as rejected.
  2. **Review Agenda plan going forward**
     1. Capture changes in 11-18/1351r8
        1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-08-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>
     2. Plans for next Telecon on Aug 24th the Telecon for Aug 17th has been cancelled.

**2018-8-17 – Cancelled**

* + 1. Comment Resolution for Next Telcon:

**2018-8-24**

1. David Goodall – 11-18-1177 11ah TXOP limits, <https://mentor.ieee.org/802.11/dcn/18/11-18-1177-00-000m-802-11ah-txop-limits.docx>
2. Mark HAMILTON – CIDs 1507, 1525, CIDs 1100, 1104, 1102 in 11-18-1369
3. Mark RISON CID 1465, 1387 & 1388
4. 11ah CIDs, including 11-18-1099 and 11-18-1100
   1. **Review Comment status**
      1. On the order of 90 that have a proposed change that needs to be addressed.
   2. **Review Sept Interim Session Mtg Slot plan**
      1. We currently have 5 slots scheduled.
      2. We may want to add 1 or two on Monday and/or Tuesday Evening.
      3. We may have to push the submission required CIDs last.
      4. If we don’t make Sept for LB, then we will make November, so if we make it great, but if not, it is not the end of the world, and we can complete more Submission required CIDs that would come back up again.
   3. **Review Draft contents**
      1. D1.0 had TGai, and TGah
      2. D1.2 has TGaj
      3. D1.3 has changes from July
      4. D1.4 will have TGak by Sept.
   4. **Request to revisit PHY CIDs**
      1. CID 1387 (PHY)
         1. CID 1387 is similar to CID 1388
         2. Assign CID 1387 to be included with CID 1388 with Mark RISON new submission. (see Action item #1)
         3. ACTION ITEM #2: Mark RISON to talk with Menzo who was assigned to CID 1387.
      2. CID 1587 (PHY)
         1. Review Comment
         2. Review context 2893.15
         3. Similar to CID 1329
         4. From REVmd TGmd Adhoc in FT. Lauderdale minutes – 11-18/680r0:
            1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0680-00-000m-minutes-revmd-adhoc-april-2018-ft-lauderdale.docx>
            2. Quote:

1.7.1.16 ACTION ITEM #4: Mark HAMILTON - Prepare a submission on the 3 CIDs (1329, 1587,1621) to outline the question. Do we want to allow 2.4 or preclude or do we want to limit to only 5Ghz or allow adding 6Ghz band… and what about 11ax – Note that CID 1621 is only reference as Peter E is preparing a submission on this one. – See **CIDs 1329, 1236**

* + - 1. Concern that this CID was marked Submission Required and wanted to ensure it was discussed.
      2. The Concern that this CID should not be included in the bulk reject for Submission Required CIDs.
      3. The chair stated that All CIDS would get appropriate attention and discussion and any rejection would be on a case by case basis.
  1. **Adjourned 12:02 pm ET.**

1. **802.11md - REVmd – Telecon, Friday 24 August 2018, 10:00- 12:00 ET**
   1. **Call to Order** at 10:03 ET by the TG Chair, Dorothy STANLEY (HPE)
   2. **Attendance:**
      1. Jon ROSDAHL (Qualcomm)
      2. Dorothy STANLEY (HPE)
      3. Emily QI (Intel)
      4. Mark HAMILTON (ARRIS/Ruckus)
      5. Mark RISON (Samsung)
      6. Michael MONEMURRO (Blackberry)
      7. David Goodall (Morse Micro)
      8. Menzo Wentink (Qualcomm)
      9. Sean Coffey (Realtek)
      10. Yasu Inoue (NTT)
      11. Graham Smith (SR Technologies)
      12. Jerome Henry (Cisco)
      13. Liwen Chu (Marvell)
      14. Viewer 92, 112 (did not respond)
   3. **Review of Patent Policy**
      1. **Patent Policy: Ways to inform IEEE:**
         1. Call for essential patents – No comments.
      2. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
   4. **Agenda Review – 11-18/1351r10**
      1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-10-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>
      2. draft Agenda:

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.      Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>

2.       Editor report – Emily QI

a.       Editor report document, 11-17-920, including P802.11ak editorial roll-in issues

b.      Comments received LB 232 are here: 11-18-611

3.       Comment resolution.

**2018-8-24**

1. David Goodall – 11-18-1177 11ah TXOP limits, <https://mentor.ieee.org/802.11/dcn/18/11-18-1177-00-000m-802-11ah-txop-limits.docx>
2. Mark HAMILTON – CIDs 1507, 1525, CIDs 1100, 1104, 1102 in 11-18-1369
3. Mark RISON CID 1465, 1387 & 1388
4. Menzo WENTINK – CID 1505, see <https://mentor.ieee.org/802.11/dcn/18/11-18-1426-00-000m-cid-1505.docx>
5. Resolution for Editorial comment CID 1306 – 18/1421r0  - 5 minutes
6. Abhi Patil, Menzo Wentink – 11-18-1350 – CIDs 1287, 1288, 1300
7. 11ah CIDs, including 11-18-1099 and 11-18-1100

4.       AOB: review the comment status

5.       Adjourn

* + 1. We reviewed the agenda –
       1. Change document – 11-18/1433 for CIDs 1100, 1104, 1102 and CIDs 1507 and 1525 were not to be discussed today and postponed to Sept Interim.
    2. No other changes or objections to the modified agenda.
  1. **Editor report** – Emily QI (Intel)
     1. Editor report document, 11-17-920, including P802.11ak editorial roll-in issues
        1. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-11-000m-802-11revmd-editor-s-report.ppt>
        2. Review editor report
        3. Issues with 11ak roll-in noted (1)
           1. There was not a request for 34 to be released, but rather a miscommunication between the AANA editor and the TGak chair.
           2. We need to check on the process to ensure we don’t have this type of issue again in future.
           3. The feedback was to change the Max Channel Switch Time element to a new value as there would not be a change to 802.11ak that was published.
           4. ACTION ITEM #3: Emily QI to post this information to the 802.11 reflector to allow a wider audience.
           5. Published values should take precedence over the Draft.
           6. 11-18/203r2 was the submission that brought in the TGmd request for the reuse of the value 34.
        4. Issues with 11ak roll-in noted (1) Slide 6
           1. Changes in D1.3 removed sentence 11ak intended to have added.
           2. We may need to look into the long description being changed includes the size limit is captured someplace else. Some other MPDU text covers this issue.
           3. ACTION ITEM #4: Mark HAMILTON/Donald Eastlake- Check D1.4 has the text potentially cited 11-17/920r11 slide 6 is captured elsewhere in the draft.
     2. Comments received on LB 232 are here: 11-18-0611r7
        1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0611-07-000m-revmd-wg-ballot-comments.xls>
  2. **Review doc 11-18-1177** - 11ah TXOP limits - David Goodall (Morse Micro)–
     1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1177-00-000m-802-11ah-txop-limits.docx>
     2. Review submission
        1. Discussion from the document:

The original comment and original proposed change are below. Note that Table 9-146 in 802.11md d1.1 has been renumbered to become Table 9-155 in 802.11md d1.3. In addition, the default values for TXOP limit are expressed in milliseconds and are multiples of 32 microseconds, so the proposed value of 32.767 milliseconds is reduced to 32.736 milliseconds in the proposed text changes further below.

A duration value of 32.736 milliseconds allows for at least the transmission of the following frame exchange at the 802.11ah MCS 10 rate in a 1 MHz channel:

RTS / NDP CTS / 511 byte Packet/ NDP ACK

* + 1. Discussion on the addition of the extra column in table 9-155. “For PHY defined in Clause 23 (Sub 1 GHz (S1G) PHY specification(11ah)) (11ah)”
    2. Discussion on the values of the TXOP Limit.
    3. Discussion on the traffic that is expected in 11ah.
    4. Discussion on the limitations of the fragmenting and the use of MCS limits.
    5. Summary was that there was support for adding a specific value for 11ah, but the discussion was is that value 32 or 16 for the default value. We will try to get consensus in September on the value and motion the adoption then.
    6. It was noted that TVWhitespace may have some analysis that we can leverage as their numbers are similar. More Analysis can be done between now and the September Interim Session.
  1. **Review Doc 11-18/1433r0** - CID 1100-1102-1104 – Mark HAMILTON (ARRIS/Ruckus)
     1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1433-00-000m-comment-resolutions-for-element-id-cids-1100-1102-1104.docx>
     2. CID 1100, 1102, 1104 (MAC)
        1. Review Comments
        2. Doc 11-18/702 addresses some of the wording to be cleared up, 11-18/1396 has a counter proposal.
        3. The proposal today would be to have two tables.
        4. We did discuss the two-table approach previously, but in Portland, we discussed this again, and thought we should revisit that decision.
        5. Review the proposed changes.
        6. The scheme would be that for any extension element usage could be done much cleaner in a listing the element id with its extensions in a separate table.
        7. Existing reference to Table 9-87 would not need to be changed as the “255” would reference the extension id would be in the next table.
        8. Example of how existing references are done: The Element ID field is equal to the Measurement Pilot Transmission value in Table 9-87 (Element IDs).
           1. This may need to be fixed.
           2. Most of the extension elements use the clause number rather than the table.
           3. Another example: There shall be a Request subelement in the Measurement Request field of the Beacon request frame that contains the Element ID of the QLoad Report element (as defined in Table 9-87 (Element IDs))
        9. Clause 14 would need to check several references, Clause 11 was the other example, so only a few references that have an explicit callout to a explicit name that may need to be fixed. Not having a name in the cited table would need to be addressed.
        10. We will need to identify the changes and add to submission to get this adopted.
        11. More discussion on whether the two-table approach is the best.
        12. It may be that this direction will not really cause many changes.
        13. References to Table 9-87 are primarily the non-extension elements, so not a problem.
        14. Straw Poll: -
            1. Two-Table approach – 11-18/1433 plus minor fix ups to references.
            2. Single table Approach – 11-18/1369r2 – fixes in the text are similar and have multiple rows for 255.
            3. Results: Two-Table: 2; One-Table: 7; Abstain: 1
        15. We will proceed in the One-Table format.
        16. ACTION ITEM #5: Mark HAMILTON – post 11-18/1369r2 and post the information to the reflector for consideration of a motion to resolve the CIDs in Sept.
  2. **Review doc 11-18/1306r2** – Mark RISON (Samsung)
     1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1306-02-000m-resolutions-for-some-comments-on-11md-d1-0-lb232.docx>
     2. CID 1465 (PHY)
        1. Review minutes from Portland REVmd F2F meeting:
     3. CID 1465 (PHY)
        1. Review comment
        2. Discussion on if MMPDU had DA or not…or even RA.
        3. Most possibilities talk about “destined to “.
        4. Suggest that “Destination” or “Destination STA” may be a good replacement.
        5. Disagreement to the change unless we review definition for “frame body field” in 9.2.4.3.5 and 9.2.4.3.7 (DA and RA field definitions).
        6. So we look at the changes separately….
        7. Proposed changes:

In 12.9.2.2 change “MSDU or A-MSDU has an individual RA” to “MSDU or A-MSDU has an individual DA”,

“MPDU has a group addressed RA” to “MPDU has a group RA”.

In 12.9.2.3 change “MMPDU has an individual RA” to “MMPDU has an individual DA” (2x),

change “MMPDU has a group RA” to “MMPDU has a group DA” (2x).

In 12.9.2.6 change “MPDU has a group addressed RA” to “MPDU has a group RA”.

In 12.9.2.7 change “MMPDU has an individual RA” to “MMPDU has an individual DA” (2x),

change “MMPDU has a group RA” to “MMPDU has a group DA” (2x).

In 12.9.2.9 change “MMPDU has individual RA” to “MMPDU has an individual DA” (2x),

“MPDU has group addressed RA” to “MMPDU has group DA”.

Change “has individual RA” to “has an individual RA” throughout.

* + - 1. Discussion on if MMPDU not having DA, SA, TA, RA fields. These terms are not yet until they transition to the MSDU.
      2. The highlighted text seemed to be correct, but more discussion would need to be done to catch the subtlety explanation.
      3. The PSDU was the same as MPDU in the distant past.
      4. Protection with an RTS/CTS is done over the full A-MPDU. So the PSDU contains (an) MPDU(s) with an individual RA.
      5. Looked at some changes to the proposed changes for harmonizing the specific changes.
      6. An update to this section will need to be made.
      7. Discussion on the possible changes that need to be made to the proposal in 10.7.
      8. We need to be sure not to break compatibility – the highlighted text is the confusing point that needs to be rewritten.
      9. ACTION ITEM #6: Michael MONTEMURRO/Menzo WENTINK to look at the highlighted text in 11-16/1306r2 and provide a suggestion for rewrite and to determine what existing implementations do.
    1. CIDs 1387 (PHY) and 1388 (EDITOR)
       1. Review comments
       2. These comments are in 11-16/1306r3 that will be posted shortly.
       3. Proposed Resolution CID 1387: Reject; there is a normative statement of this fact at the end of Subclause 19.3.5.
       4. Discussion requirements of required (shall) or not.
       5. Need more thought about CID 1388 updated proposal to overturn the current state of CID 1388
       6. Do we want to maintain the shall on two spatial streams?
       7. There is a document 11-18/701 that has a proposed resolution that should be considered for CID 1388.
       8. CID 1388 has a motioned Resolution and is now with (Editor).
  1. **Review Doc 11-18/1426r0** – Menzo WENTINK (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1426-00-000m-cid-1505.docx>
     2. CID 1505 (MAC)
        1. Review comment
        2. Review submission
        3. Discussion on the need for two retry counters.
        4. We are at time, so more time to discuss offline should be used.
  2. Review list of documents that we did not get to today, encourage all to read prior to September
  3. Adjourned at 12:03pm

**References:**

**August 10, 2018:**

1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-07-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-08-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/18/11-18-0611-07-000m-revmd-wg-ballot-comments.xls>
4. <https://mentor.ieee.org/802.11/dcn/18/11-18-1375-01-000m-lb232-cr-esp-bis.docx>
5. <https://mentor.ieee.org/802.11/dcn/18/11-18-0680-00-000m-minutes-revmd-adhoc-april-2018-ft-lauderdale.docx>
6. <https://mentor.ieee.org/802.11/dcn/18/11-18-1367-00-000m-revmd-lb232-editor2-ad-hoc-related-comment-resolutions.docx>
7. <https://mentor.ieee.org/802.11/dcn/12/11-12-0751-01-00ad-dmg-encoding-examples.docx.>
8. <https://mentor.ieee.org/802.11/dcn/18/11-18-1367-01-000m-revmd-lb232-editor2-ad-hoc-related-comment-resolutions.docx>
9. <https://mentor.ieee.org/802.11/dcn/18/11-18-0701-01-000m-cids-1388-and-1359.docx>
10. <https://mentor.ieee.org/802.11/dcn/18/11-18-0616-00-000m-minutes-revmd-may-2018-warsaw.docx>
11. <https://mentor.ieee.org/802.11/dcn/18/11-18-0701-01-000m-cids-1388-and-1359.docx>
12. <http://www.ieee802.org/11/email/stds-802-11-tgm/msg01369.html>
13. <https://mentor.ieee.org/802.11/dcn/18/11-18-0680-00-000m-minutes-revmd-adhoc-april-2018-ft-lauderdale.docx>

**August 24, 2018:**

1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
2. <https://mentor.ieee.org/802.11/dcn/18/11-18-1351-10-000m-tgmd-2018-july-august-teleconference-and-ad-hoc-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-11-000m-802-11revmd-editor-s-report.ppt>
4. <https://mentor.ieee.org/802.11/dcn/18/11-18-0611-07-000m-revmd-wg-ballot-comments.xls>
5. <https://mentor.ieee.org/802.11/dcn/18/11-18-1177-00-000m-802-11ah-txop-limits.docx>
6. <https://mentor.ieee.org/802.11/dcn/18/11-18-1433-00-000m-comment-resolutions-for-element-id-cids-1100-1102-1104.docx>
7. <https://mentor.ieee.org/802.11/dcn/18/11-18-1306-02-000m-resolutions-for-some-comments-on-11md-d1-0-lb232.docx> <https://mentor.ieee.org/802.11/dcn/18/11-18-1306-03-000m-resolutions-for-some-comments-on-11md-d1-0-lb232.docx>
8. <https://mentor.ieee.org/802.11/dcn/18/11-18-1426-00-000m-cid-1505.docx>

**ACTION ITEMS List:**

ACTION ITEM #1: Mark RISON – prepare a submission to put all the proposed changes for CID 1388 in context in one submission and announce to reflector. Note that CID 1388 has been motioned, so without a submission, it will default to being done as rejected.

ACTION ITEM #2: Mark RISON to talk with Menzo who was assigned to CID 1387.

ACTION ITEM #3: Emily QI to post this information to the 802.11 reflector to allow a wider audience.

ACTION ITEM #4: Mark HAMILTON/Donald Eastlake- Check D1.4 has the text potentially cited 11-17/920r11 slide 6 is captured elsewhere in the draft.

ACTION ITEM #5: Mark HAMILTON – post 11-18/1369r2 and post the information to the reflector for consideration of a motion to resolve the CIDs in Sept.

ACTION ITEM #6: Michael MONTEMURRO/Menzo WENTINK to look at the highlighted text in 11-16/1306r2 and provide a suggestion for rewrite and to determine what existing implementations do.