IEEE P802.11  
Wireless LANs

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| Telecon Minutes for REVmd CRC- July 22-31 2020 | | | | |
| Date: 2020-07-31 | | | | |
| Author(s): | | | | |
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Abstract

Minutes for the TGmd REVmd CRC Telecon held July 22 through 31, 2020.

There will be a Telecon on July 24 that will contain motions for resolutions prepared between June 19 to July 17.

R0: Initial version of the minutes for July 22.

R1: Version of the minutes for July 24 added.

R2: Minutes for July 29th added.

R3: Minutes for July 31st added.

1.0 **IEEE 802.11md REVmd CRC Telecon Wednesday July 22, 2020 16:00-18:00 ET**

* 1. **Called to order at 16:05** ET by the TG Chair Dorothy STANLEY (HPE)
  2. **Review Patent and Participation Policy**
     1. No Issues noted.
  3. **Attendance:** -please log with IMAT:
     1. About 25 attendees reported by WebEx
  4. -please log with IMAT:
     1. About 13 attendees reported by WebEx

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|  | TGmd | 7/22 | Aboulmagd, Osama | Huawei Technologies Co. Ltd |
|  | TGmd | 7/22 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
|  | TGmd | 7/22 | Derham, Thomas | Broadcom Corporation |
|  | TGmd | 7/22 | Goodall, David | Morse Micro |
|  | TGmd | 7/22 | Hamilton, Mark | Ruckus Wireless |
|  | TGmd | 7/22 | Harkins, Daniel | Aruba Networks, Inc. |
|  | TGmd | 7/22 | Levy, Joseph | InterDigital, Inc. |
|  | TGmd | 7/22 | Montemurro, Michael | Self |
|  | TGmd | 7/22 | Qi, Emily | Intel Corporation |
|  | TGmd | 7/22 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 7/22 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 7/22 | Smith, Graham | SR Technologies |
|  | TGmd | 7/22 | Stanley, Dorothy | Hewlett Packard Enterprise |
|  | TGmd | 7/22 | Wentink, Menzo | Qualcomm Incorporated |

* + 1. Missing from IMAT: None reported
  1. **Review Agenda**: 11-20/1001r5:
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-05-000m-2020-july-august-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 5-15 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>

2. Editor report – Emily QI/Edward AU

– see <https://mentor.ieee.org/802.11/dcn/19/11-19-2156> .

Total of 820 comments; approximately 200 comments remaining.

Editors prepared D3.4 incorporating all approved comments to date. Draft 3.4 available on Monday 2020-07-13. See <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-27-000m-802-11revmd-editor-s-report.ppt>.

3. Comment resolution

a) 2020-07-22 Wednesday 4-6pm Eastern 2 hours

1. Emily QI – CID 4050 https://mentor.ieee.org/802.11/dcn/20/11-20-0947
2. Menzo WENTINK – including CIDs 4761, 4762, 4315 https://mentor.ieee.org/802.11/dcn/20/11-20-0150-13-000m-assorted-crs-revmd-draft-3-0.docx, <https://mentor.ieee.org/802.11/dcn/20/11-20-1038-00-000m-edca-and-hcca.docx>
3. Osama ABOUL-MAGD - <https://mentor.ieee.org/802.11/dcn/20/11-20-0814-01-000m-proposed-resolutions-to-cids-4145-4146-and-4147.docx>
4. Mark HAMILTON – MAC CIDs, <https://mentor.ieee.org/802.11/dcn/20/11-20-0338-12-000m-revmd-initial-sa-comments-assigned-to-hamilton.docx> and <https://mentor.ieee.org/802.11/dcn/20/11-20-1114-01-000m-revmd-backoff-procedure-correction.docx>
5. Graham Smith CID 4694 <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-10-000m-cids-from-mike-to-graham-2.docx>
6. Mark Rison – CIDs 4565, 4616, 4620, and 4623 for direction, 4137, 4808 (re-visit), 4229/4266, see <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>.

4.       AOB

5. Adjourn

* + 1. Discussion of Agenda
       1. Review all authors planned on agenda are ready.
    2. No objection to updated Agenda see doc 11-20/1001r6
  1. **Editor Report** – Emily QI (Intel)
     1. No changes from Last Friday
  2. **Review doc 11-20/0947r1** CID 4050 - Emily QI (INTEL)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0947-01-000m-proposed-resolutions-for-cid-4050.doc>
     2. CID 4050 (PHY)
        1. Review the updated changes.
        2. Change to Association from ReAssociation.
        3. Need an r2 to be posted.
        4. Proposed Resolution: REVISED (PHY: 2020-07-22 20:18:56Z) - Incorporate the changes under "Proposed Changes:" in document 11-20/0947r2 <<https://mentor.ieee.org/802.11/dcn/20/11-20-0947-02-000m-proposed-resolutions-for-cid-4050.doc>> which clarify SA Query procedures.
        5. Mark Ready for Motion
        6. Prepare for motion on August 7th.
  3. **Review doc 11-20/150r15** - Menzo WENTINK (Qualcomm)
     1. including CIDs 4761, 4762, 4315
     2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0150-15-000m-assorted-crs-revmd-draft-3-0.docx>,
     3. CID 4761
        1. Not ready.
     4. CID 4763 (MAC):
        1. Reassign to Assaf KASHER
     5. CID 4315 (EDITOR2)
        1. Review comment
        2. Review submission discussion –
        3. Review proposed changes; 3 changes.
        4. No discussion
        5. Proposed resolution: CID 4315 (EDTIOR2): Revised; Incorporate the changes in 11-20/0150r15 for CID 4315
        6. No Objection – Mark Ready for Motion
     6. CID y, z - Additional Changes described.
        1. Review vestigial edits for “DLS” leftovers.
        2. The Intent to have separate motion for these changes.
        3. Motion to approve: CID (x) and CID (y) - ad hoc proposals. Changes as shown in 11-20/0150r15.

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| CID **y** Menzo Wentink | There are 4 vestigial occurrences of "DLS" outside the MIB. | Remove these occurrences of "DLS". | Revised  Table 10-13 (Settings for the TXVECTOR parameter PARTIAL\_AID for CMMG STAs):  1817.14, delete "DLS or" (2x)  1818.16 delete "DLS or" (2x) |

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| CID **z** Menzo Wentink | There are 3 vestigial occurrences of "PCO" outside the MIB. | Remove these occurrences of "DLS". | Revised  Figure 9-761 (CMMG Operation Information field format):  1451.15 delete entries B4 (PCO Active) and B5 (PCO Phase), change "B6" at the Reserved entry to "B4 B6", and change "1" at the Reserved entry to "3".  2347.5 delete ", excluding PCO," (in the TDLS section) |

* + 1. Discussion on CID a

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| CID **a** Menzo Wentink | Deleted features still occur in the MIB, including their acronyms. The only change seems to be that the MIB entry is marked as deprecated. | Find a way to delete deleted features from the MIB entirely.  Or at least maybe to delete the contents of the deleted MIB variable without deleting the remaining structure. |

* + - 1. More discussion will need to occur.
    1. CID 4762 (MAC):
       1. Review Comment
       2. Review proposed resolution and changes.
       3. The first three lines are the actual proposed resolution, and the rest of the text to be included in the AdHoc notes of the database.
       4. Proposed Resolution: CID 4762 (MAC): REVISED (MAC: 2020-07-22 20:41:51Z): At 1340.56, at the bottom of Table 9-272, add a Note as follows: "NOTE 12—See also 11.39 (VHT BSS operation)."
       5. No Objection - Mark Ready for Motion
    2. CID 4764 (MAC)
       1. Review Comment
       2. Review Context
       3. Proposed resolution: CID 4764 (MAC): REVISED (MAC: 2020-07-22 20:42:59Z): At 1185.41, before "and" insert ", 11.39 (VHT BSS operation)".
       4. No Objection - Mark Ready for Motion
    3. CID 4811 (MAC)
       1. Review Comment
       2. Review Context
       3. Review Proposed changes
       4. Request to have some more review on the ***Wide Bandwidth Channel subelement*** changes.
       5. ACTION ITEM: Menzo to check with Brian HART.
       6. This is a follow-up on an earlier change, and it is believed that this is left over that was missed.
       7. Discussion on the Channel Switch element and the Channel element should all align at least logically in VHT and other clauses.
       8. Discussion on aligning with the VHT operation.
       9. The proposed changes are specific to the comment, and only change the location cited.
       10. Concern with the possible problem in the element if there is a problem with-in the sub-element.
       11. There was objection to accepting the proposed change without looking at the broader subject.
       12. The changes we make have to align with other changes.
       13. Note: 9.4.2.160 Wide Bandwidth Channel Switch element and figure 9-343 Wide Bandwidth Channel subelement format.
       14. More work will be needed.
       15. Assigned to agenda for July 29th (Wednesday)
  1. **Review doc 11-20/0814r2** Osama ABOUL\_MAGD (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0814-02-000m-proposed-resolutions-to-cids-4145-4146-and-4147.docx>
     2. CIDs 4145 and 4147 (both MAC):
        1. Review comments.
        2. Review proposed changes.
        3. Proposed Resolution: Revised; incorporate the changes in r2
        4. Request for more time to review.
        5. Discussion on the definition of UP and the use of 802.1D. Traffic Category (TC) vs User Category.
        6. Discussion on UP associations.
        7. Discussed if a Frame has a TID and if the frame has priority, then it is a TIDS, then we may have an UP for the frames.
        8. Discussion on if a packet has or does not have a Priority. Some Priority is required for every MSDU at this point (inbound for QoS traffic).
        9. There are still contexts for UPs in the context of QoS frames.
        10. These will be rescheduled for next week and we will close on the CIDs next week. We are at the point we need to close on the subject.
        11. The total view of QoS in the standard may need a longer discussion.
     3. CID 4146 (MAC)
        1. Review comment
        2. Clarification on TSPEC element is needed.
        3. Review submission discussion.
        4. Note: EDCA TSPEC uses UP not TSID.
        5. For Table 9-12- TID subfield, change should just be UP not MSDU or A-MPDU before the UP.
        6. TID cannot carry both an UP and a TSID. So that is the ambiguity that needs to be resolved.
        7. More work needs to be done.
        8. Add to agenda for next week.
     4. **Review doc 11-20/338r14** - MAC CIDs – CID 4479 and 4480 – Mark HAMILTON (Ruckus/CommScope)
     5. <https://mentor.ieee.org/802.11/dcn/20/11-20-0338-14-000m-revmd-initial-sa-comments-assigned-to-hamilton.docx>
     6. CID 4479 (MAC)
        1. Review the CID
        2. Similar to CID 4480
        3. This comment is effectively a duplicate of CID 4480, which has already been approved and motioned (Motion #187) as Accepted.
        4. Details for CID 4480 are: Change "The STA is a non-AP STA in an infrastructure BSS" to "The STA is a non-AP STA in a DMG infrastructure BSS"
        5. Proposed Resolution: Revised. Change "The STA is a non-AP STA in an infrastructure BSS" to "The STA is a non-AP STA in a DMG infrastructure BSS".

Note to commenter, this is per the resolution to CID 4480, which noted that the DMG case is not covered by a).

Note to Editor: This the same resolution as to CID 4480, which has already been implemented.

* + - 1. No objection – Mark Ready for motion
    1. CID 4677 (MAC)
       1. Review comment
       2. This comment is effectively resolved by the resolution to CID 4432.
       3. Proposed resolution: Revised.

(Note, this is the same resolution as the resolution for CID 4432.)

In D3.1:

At the end of the first para of 11.46.2.1 FILS Discovery frame transmission add “The Address 1 field of the FILS Discovery frame shall) be set to the broadcast address.”.

At the end of the second para (“In a non-DMG and non-S1G BSS, …”) of 11.1.3.1 General (in 11.1.3 Maintaining synchronization) add “The Address 1 field of the Beacon or Timing Advertisement frame shall be set to the broadcast address.”.

At the end of the third para (“In a DMG infrastructure BSS, …”) of 11.1.3.1 General (in 11.1.3 Maintaining synchronization) add “The Address 1 field of the Timing Advertisement frame shall be set to the broadcast address.”.

At the end of second para of 14.13.3.1 Beacon generation in MBSSs add “The Address 1 field of the Beacon frame shall be set to the broadcast address.”.

At the end of 11.8.8.1 General (in 11.8.8 Selecting and advertising a new channel) add a para “The Address 1 field of a Channel Switch Announcement frame shall be set to the broadcast address.”

At the end of 11.9.1 General (in 11.9 Extended channel switching (ECS)) add a para “The Address 1 field of an Extended Channel Switch Announcement frame shall be set to the broadcast address.”

At 2302.47 and 2302.49 change “multiple Beacons, Measurement Pilots, or Probe Response frames” to “multiple Beacon, Measurement Pilot, or Probe Response frames”.

At 2318.56, 2320.52/53(2x)/60/61/63, 2321.1/3/5/13/19/43 change “Measurement Pilots” to “Measurement Pilot frames”. At 327.16 change “measurement pilots” to “Measurement Pilot frames”.

* + - 1. No objection – Mark Ready for motion
  1. **Review doc 11-20/1114r1** Mark HAMILTON (Ruckus/CommScope)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1114-01-000m-revmd-backoff-procedure-correction.docx>
     2. Abstract: Discusses a glitch in REVmc, and proposed a correction, for REVmd consideration.
     3. Review the submission background section.
     4. Review the Proposed changes
     5. Discussion on the use of punctuation and having the Editors make it consistent.
     6. Discussion on the change of Timers to Counters and if it is correctly in place here.
     7. An Upload of revision will be done, and a separate motion will be created.
  2. **Review doc 11-20/272r10** - CID 4694 - Graham Smith (SR Technologies).
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-10-000m-cids-from-mike-to-graham-2.docx>
     2. CID 4694 (PHY)
        1. Review history of proposal
        2. Review the submission and proposed changes.
        3. Discussion on some minor changes that need to be made.
        4. Running out of time, so need to reschedule for review on future call.
  3. **Out of Time:**
     1. We will add to the end of Friday’s agenda the items we did not make today.
  4. **Review Timeline** 
     1. To make Oct 13 Deadline for RevCom submission deadline.
     2. Aug 7th will be final Motion for all CIDs for this SA Ballot.
     3. Proposed Monday August 3 and Tuesday August 4 at 3-5pm ET to be able to complete in time.
     4. Discussion on the times
     5. No strong objection.
  5. **Adjourn at 18:01 (6:01 pm) ET**

1. **IEEE 802.11md REVmd CRC Telecon Friday July 24, 2020 10:00-12:00 ET**
   1. **Called to order at 10:05am** ET by the TG Chair Dorothy STANLEY (HPE)
   2. **Review Patent and Participation Policy**
      1. No Issues noted.
   3. **Attendance:** -please log with IMAT:
      1. About 25 attendees reported by WebEx
   4. -please log with IMAT:
      1. About 23 attendees reported by WebEx

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|  | TGmd | 3058 | 7/24 | Aboulmagd, Osama | Huawei Technologies Co. Ltd |
|  | TGmd | 12585 | 7/24 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
|  | TGmd | 57126 | 7/24 | Derham, Thomas | Broadcom Corporation |
|  | TGmd | 8114 | 7/24 | Fischer, Matthew | Broadcom Corporation |
|  | TGmd | 24385 | 7/24 | Hamilton, Mark | Ruckus Wireless |
|  | TGmd | 18299 | 7/24 | Harkins, Daniel | Aruba Networks, Inc. |
|  | TGmd | 12865 | 7/24 | Kakani, Naveen | Qualcomm Incorporated |
|  | TGmd | 9302 | 7/24 | Kasher, Assaf | Qualcomm Incorporated |
|  | TGmd | 55256 | 7/24 | Kim, Youhan | Qualcomm Incorporated |
|  | TGmd | 8390 | 7/24 | Kwon, Young Hoon | NXP Semiconductors |
|  | TGmd | 4622 | 7/24 | Levy, Joseph | InterDigital, Inc. |
|  | TGmd | 61032 | 7/24 | Lindskog, Erik | SAMSUNG |
|  | TGmd | 14412 | 7/24 | Malinen, Jouni | Qualcomm Incorporated |
|  | TGmd | 13492 | 7/24 | McCann, Stephen | Self |
|  | TGmd | 7363 | 7/24 | Montemurro, Michael | Self |
|  | TGmd | 61804 | 7/24 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 5030 | 7/24 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 14845 | 7/24 | Smith, Graham | SR Technologies |
|  | TGmd | 2948 | 7/24 | Stanley, Dorothy | Hewlett Packard Enterprise |
|  | TGmd | 22645 | 7/24 | Wentink, Menzo | Qualcomm Incorporated |

* + 1. Missing from IMAT: None reported
  1. **Review Agenda**: 11-20/1001r7:
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-07-000m-2020-july-august-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 5-15 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>

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

https://mentor.ieee.org/802.11/dcn/19/11-19-2156. Total of 820 comments; approximately 200 comments remaining. See <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-27-000m-802-11revmd-editor-s-report.ppt> .

D3.4 is available and includes resolution approved in May and June motions.

3.       Comment resolution  
**a) 2020-07-24 Friday 10 am Eastern 2 hours –**

* 1. **Motion: Previous Minutes –**

**Approve the following minutes documents:**

* + 1. **June 17-19,** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0915-02-000m-telecon-minutes-for-revmd-crc-june-17-19-2020.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-0915-02-000m-telecon-minutes-for-revmd-crc-june-17-19-2020.docx)
    2. **June 24-30,** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0956-04-000m-telecon-minutes-for-revmd-crc-june-24-30-2020.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-0956-04-000m-telecon-minutes-for-revmd-crc-june-24-30-2020.docx)
    3. **July 8-10,** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1030-02-000m-telecon-minutes-for-revmd-crc-july-8-10-2020.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1030-02-000m-telecon-minutes-for-revmd-crc-july-8-10-2020.docx)
    4. **July 15,** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1099-00-000m-telecon-minutes-for-revmd-crc-july-15-2020.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-1099-00-000m-telecon-minutes-for-revmd-crc-july-15-2020.docx)
    5. **July 17,** [**https://mentor.ieee.org/802.11/dcn/20/11-20-1111-00-000m-telecon-minutes-for-revmd-crc-july-17-2020.docx**](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_20_11-2D20-2D1111-2D00-2D000m-2Dtelecon-2Dminutes-2Dfor-2Drevmd-2Dcrc-2Djuly-2D17-2D2020.docx&d=DwMFaQ&c=C5b8zRQO1miGmBeVZ2LFWg&r=NTHtA_KHOOrju0kuqznMMhn2PgeiJdiVcWeUfvVgSN4&m=3GFoJbsxnMAXaL3PReiJvXXr6VuGv2RwEXMx2DX8hrU&s=ikIsU5BS3nYZ2ywPBYgW2MhDiokKkNWUZ0ihVHQy174&e=)
  1. **Motion 210 – EDITOR (3+1 CIDs)** 
     1. **Approve the comment resolutions in the “Motion-EDITOR-W” and “Motion-EDITOR-X” tabs in** : <https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls>
  2. **Motion: PHY (31 CIDs)**
     1. **Approve the comment resolutions in the “PHY Motion G” tab in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx**](https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx)**, Changing the resolution for CID 4463 to refer to R6 of 11-20-0929 (not R2)**
  3. **Motion – GEN CIDs (6 CIDs)**
     1. **Approve the comment resolutions in the “Motion GEN for July 24” tab in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls**](https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls)
  4. **Motion – MAC (19 CIDs)**
     1. **Approve the comment resolutions in the “Motion MAC-AQ” tab in** [**https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls**](https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls)
  5. **Motion – MAC CIDs – CID 4159**
     1. **Approve the comment resolutions in the “Motion MAC-MSCS in Assoc” tab in** [**https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls**](https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls)
  6. **Motion – Insufficient Detail CIDs – EDITOR (10 CIDs) & EDITOR2 (1 CID)**
     1. **Approve the comment resolutions in the “Motion-EDITOR2-T” tab in** [**https://mentor.ieee.org/802.11/dcn/19/11-19-2160-11-000m-revmd-editor2-standards-association-ballot-comments.xlsx**](https://mentor.ieee.org/802.11/dcn/19/11-19-2160-11-000m-revmd-editor2-standards-association-ballot-comments.xlsx) **and   
        Approve the comment resolutions in the “Insufficient Detail” tab in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls**](https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls)
  7. **Motion – Insufficient Detail CIDs – PHY (41 CIDs)**
     1. **Approve the comment resolutions in the “Insufficient Details” tab in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx**](https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx) **Except for CID 4751**
     2. **Information: CID 4751 is on same topic as CID 4146 (Osama) under discussion.**
  8. **Motion – Insufficient Detail CIDs – GEN (18 CIDS)**
     1. **Approve the comment resolutions in the “Insufficient Details Motion” tab in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls**](https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls)
  9. **Motion – Insufficient Detail– MAC (7 CIDs)**
     1. **Approve the comment resolutions in the “Motion MAC Insufficient detail” tab in** <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>
  10. **Motion 2xx: Random SAE fixes**
      1. **Incorporate the text changes in** [**https://mentor.ieee.org/802.11/dcn/20/11-20-0725-01-000m-random-sae-comments.docx**](https://mentor.ieee.org/802.11/dcn/20/11-20-0725-01-000m-random-sae-comments.docx) **into the TGmd draft**
  11. **Motion 2xx– RSNXE interoperability fixes**
      1. **Incorporate the text changes in https://mentor.ieee.org/802.11/dcn/20/11-20-0332-04-000m-rsnxe-interoperability-issue.docx into the TGmd draft.**
  12. **Motion 2xx– CID 4155**
      1. **Resolve CID 4155 as “Revised” with a resolution of “Make the changes as shown in 11-19/1564r9 (**[**https://mentor.ieee.org/802.11/dcn/19/11-19-1564-09-000m-originator-block-ack-state.docx**](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_19_11-2D19-2D1564-2D09-2D000m-2Doriginator-2Dblock-2Dack-2Dstate.docx&d=DwQFaQ&c=C5b8zRQO1miGmBeVZ2LFWg&r=NTHtA_KHOOrju0kuqznMMhn2PgeiJdiVcWeUfvVgSN4&m=POVLg3M2Znkp6qfIOeBvf3EvHRwVQ8iGTlkA3OLPjmM&s=_VPtSmdnZqG4v9G1aeaJxydeI7q5DPr9nv4XCjZ6DCI&e=)**).  This clarifies the text for block ack state processing, as requested.”**
  13. **Graham Smith CID 4694** <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-10-000m-cids-from-mike-to-graham-2.docx>
  14. **Mark Rison – CIDs 4565, 4616, 4620, and 4623 for direction**, 4137, 4808 (re-visit), 4229/4266, see <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
  15. **Menzo WENTINK – including CIDs 4725, 4143, 4761, 4811** https://mentor.ieee.org/802.11/dcn/20/11-20-0150-15-000m-assorted-crs-revmd-draft-3-0.docx,

4.       AOB:

i. Review TGmd schedule – roughly 150 CIDs remain;

* Target D 4.0 in August; D5.0 in September
* August 7th motion for recirculation,
* August 21 – Editors have draft,
* 15-20 day recirc ballot, end by September 8.
* Hold several meetings during September plenary for comment resolution.
* Sept/early Oct D5.0 WG approval to send to EC for forwarding to RevCom – likely electronic
* Sept/Oct – D5.0 Unchanged recirc
* 6 Oct – 802 EC Approval, Draft TGme PAR (next revision)
* 13 October – Draft to RevCom
* 2020 Dec RevCom/SASB

5. Adjourn

* + 1. Discussion of Agenda
       1. Review motion list.
       2. Review submissions for remaining time.
    2. No objection to updated Agenda see doc 11-20/1001r8
  1. **Editor Report** – Emily QI (Intel)
     1. **Not today**.
  2. **Motions:**
     1. **Motion #July24: Previous Minutes -**

Approve the following minutes documents:

* June 17-19, <https://mentor.ieee.org/802.11/dcn/20/11-20-0915-02-000m-telecon-minutes-for-revmd-crc-june-17-19-2020.docx>
* June 24-30, <https://mentor.ieee.org/802.11/dcn/20/11-20-0956-04-000m-telecon-minutes-for-revmd-crc-june-24-30-2020.docx>
* July 8-10, <https://mentor.ieee.org/802.11/dcn/20/11-20-1030-02-000m-telecon-minutes-for-revmd-crc-july-8-10-2020.docx>
* July 15, <https://mentor.ieee.org/802.11/dcn/20/11-20-1099-00-000m-telecon-minutes-for-revmd-crc-july-15-2020.docx>
* July 17, [https://mentor.ieee.org/802.11/dcn/20/11-20-1111-00-000m-telecon-minutes-for-revmd-crc-july-17-2020.docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_20_11-2D20-2D1111-2D00-2D000m-2Dtelecon-2Dminutes-2Dfor-2Drevmd-2Dcrc-2Djuly-2D17-2D2020.docx&d=DwMFaQ&c=C5b8zRQO1miGmBeVZ2LFWg&r=NTHtA_KHOOrju0kuqznMMhn2PgeiJdiVcWeUfvVgSN4&m=3GFoJbsxnMAXaL3PReiJvXXr6VuGv2RwEXMx2DX8hrU&s=ikIsU5BS3nYZ2ywPBYgW2MhDiokKkNWUZ0ihVHQy174&e=)
  + - 1. Moved: Michael Montemurro
      2. Seconded: Edward Au
      3. **Result of Motion #July24: Unanimous consent – Motion Passes.**
    1. **Motion #210 – EDITOR (3+1 CIDs)**

Approve the comment resolutions in the “Motion-EDITOR-W” and “Motion-EDITOR-X” tabs in : <https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls>

* + - 1. Moved: Emily QI
      2. Seconded: Stephen MCCANN
      3. **Result Motion #210: Unanimous consent – Motion Passes.**
    1. **Motion #211: PHY (31 CIDs)**

Approve the comment resolutions in the “PHY Motion G” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx>, except for 4669, 4683, 4671, 4728, 4682, 4463.

* + - 1. Discussion
         1. Would like to wait on consideration of - The following are in my 20/0435: 4629, 4602, 4527, 4525, 4523, 4477,4220, 4699- 4751 might be resolved by Osama's work
         2. Note that 4571 is not in this motion and excluded in the other motion.
         3. Additional changes need to be reviewed.
      2. Moved: Edward AU
      3. Seconded: Michael MONTEMURRO
      4. Result Motion #211: 18-0-1 Motion Passes.
    1. **Motion #212: PHY (6 CIDs)**

Approve the comment resolutions in the “PHY Motion G” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx>, Changing the resolution for CID 4463 to refer to R6 of 11-20-0929 (not R2), for 4669, 4683, 4671, 4728, 4682, 4463

* + - 1. Reviewed changes in doc 11-20/929r6 which needed to be made for CID 4463.
         1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0929-06-000m-sb1-resolution-to-some-xdmg-cids.docx>
      2. Moved: Assaf KASHER
      3. Seconded: Michael MONTEMURRO
      4. Discussion:
         1. Opposition to the motion was expressed.
      5. **Result Motion #212: 15-1-4 – Motion Passes.**
    1. **Motion #213 – GEN CIDs (6 CIDs)**

Approve the comment resolutions in the “Motion GEN for July 24” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls>

* + - 1. Moved: Jon ROSDAHL
      2. Seconded: Emily QI
      3. **Result: Unanimous Consent – Motion Passes.**
    1. **Motion #214 – MAC (19 CIDs)**

Approve the comment resolutions in the “Motion MAC-AQ” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

Except for CID 4444 and 4746

* + - 1. Moved: Stephen MCCANN
      2. Seconded: Joseph LEVY
      3. Discussion:
         1. Correction of the CID was made.
      4. **Result Motion #214: Unanimous Consent. – Motion Passes**
    1. **Motion #215 – MAC CIDs – CID 4159**

Approve the comment resolutions in the “Motion MAC-MSCS in Assoc” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

* + - 1. Moved: Matthew FISCHER
      2. Seconded: Mark HAMILTON
      3. Discussion: None
      4. Objection for Unanimous consent.
      5. **Result Motion #215: 15-0-4 – Motion Passes.**
    1. **Motion #216 – MAC (2 CIDs)**

Approve the comment resolutions for CID 4444 and 4746

in the “Motion MAC-AQ” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

* + - 1. Michael MONTEMURRO
      2. Seconded: Stephen MCCANN
      3. Discussion:
         1. Review of the CIDs and the resolutions.
         2. From Comment Window: - 4444: "To start an HCCA TXOP, the HC gains control of the WM to send QoS traffic or to issue QoS (+)CF-Poll frames to STAs by waiting a shorter time between transmissions than the STAs using the EDCA procedures" is wonky -- to start the HCCA TXOP it just gains control, it doesn’t wait a shorter time.Also, I'm still not persuaded by the deletion in "The HC is a type of centralized coordinator"
         3. The Text noted was not changed.
         4. Disagreement on if it is clear or not.
         5. CID 4746 review. An alternative Note suggested:
         6. For 4746, how about for now just sticking this at the end of 11.13?NOTE—The mechanism by which the MAC, MLME and SME coordinate the actions needed to effect the operations described in this subclause is outside the scope of this standard.
      4. **Result Motion #216: 11-2-6 – Motion Passes.**
    1. **Motion #217 – Insufficient Detail CIDs – EDITOR (10 CIDs) & EDITOR2 (1 CID)**

Approve the comment resolutions in the “Motion-EDITOR2-T” tab in <https://mentor.ieee.org/802.11/dcn/19/11-19-2160-11-000m-revmd-editor2-standards-association-ballot-comments.xlsx> and   
Approve the comment resolutions in the “Insufficient Detail” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls>

* + - 1. Moved: Emily QI
      2. Seconded: Edward AU
      3. **Result Motion #217: Unanimous Consent – Motion Passes.**
    1. **Motion #218 – Insufficient Detail CIDs – PHY (41 CIDs)**

Approve the comment resolutions in the “Insufficient Details” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx> Except for CID 4751

* + - 1. Information: CID 4751 is on same topic as CID 4146 (Osama) under discussion.
      2. Moved: Michael MONTEMURRO
      3. Seconded: Assaf Kasher
      4. Discussion:
         1. Mark Rison chat: - The following are in my 20/0435: 4629, 4602, 4527, 4525, 4523, 4477, 4220, 4699- I think we've all forgotten about 4697, 4646, and would like to request a bit of time to put together a proposal
         2. No other discussion.
      5. **Result Motion #218: 12-4-3 – Motion Passes.**
    1. **Motion #219– Insufficient Detail CIDs – GEN (18 CIDs)**

Approve the comment resolutions in the “Insufficient Details Motion” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls>

* + - 1. Discussion:
         1. Mark Rison comments: - 4247: there's a resolution in my 20/0435. The only question is to proceed with it as-is, or whether to not make changes to the \*Activated variables (Mark H might have an opinion) - 4819: I thought Payam was working on this?

- 4813: this seems similar if not the same as my 4515, for which I have a resolution in my 20/0435

- 4144: Osama is still working on this, isn't he?

- 4133: I think this has enough detail to be just ACCEPTED

* + - * 1. Objection to Motion as 4133 and 4247 have a possible alternative resolution.
        2. Note 4133 is not part of motion – 4113 is probably the CID that was meant.
      1. Moved: Jon ROSDAHL
      2. Seconded: Stephen MCCANN
      3. **Result for Motion #219: 11-3-4 – Motion Passes.**
      4. Request to discuss 4113 and 4247 in more detail later.
    1. **Motion #220 – Insufficient Detail– MAC (6 CIDs)**

Approve the comment resolutions in the “Motion MAC Insufficient detail” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

* + - 1. Moved: Emily QI
      2. Seconded: Dan HARKINS
      3. Discussion –
         1. Request to see if any CIDs are from Mark RISON – no objection.
      4. **Result for Motion #220: Unanimous Consent – Motion Passes**
    1. **Motion #221 - Random SAE fixes**

Incorporate the text changes in the “Proposed Change” sections in <https://mentor.ieee.org/802.11/dcn/20/11-20-0725-01-000m-random-sae-comments.docx> into the TGmd draft

* + - 1. Moved: Dan HARKINS
      2. Seconded: Jouni MALINEN
      3. Discussion:
         1. Discussion on the wording of the motion.
         2. Proposed text proposal from discussion may be missing. Some pseudo code seems to be missing.
         3. Discussion on if there was something required or not.
         4. No specifics were found in the minutes.
      4. **Result Motion #221: 16-0-4 – Motion Passes.**
    1. **Motion #222– RSNXE interoperability fixes**

Incorporate the text changes in https://mentor.ieee.org/802.11/dcn/20/11-20-0332-04-000m-rsnxe-interoperability-issue.docx into the TGmd draft.

* + - 1. Moved: Jouni MALINEN
      2. Seconded: Dan HARKINS
      3. Discussion:
         1. Review document changes made in R4.
         2. There was a grammar error that was noted for the Editors.
         3. Editors: so this is the note for the RSNXE interop motion: can you please update that "is" --> "are" when applying 332r4? Thanks
         4. 332r4, 13.7.1: "contents of the RSNXE is" --> need to be "are"
      4. **Result for Motion #222: Unanimous Consent – Motion Passes.**
    1. **Motion #223– CID 4155**

Resolve CID 4155 as “Revised” with a resolution of “Make the changes as shown in 11-19/1564r9 ([https://mentor.ieee.org/802.11/dcn/19/11-19-1564-09-000m-originator-block-ack-state.docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_19_11-2D19-2D1564-2D09-2D000m-2Doriginator-2Dblock-2Dack-2Dstate.docx&d=DwQFaQ&c=C5b8zRQO1miGmBeVZ2LFWg&r=NTHtA_KHOOrju0kuqznMMhn2PgeiJdiVcWeUfvVgSN4&m=POVLg3M2Znkp6qfIOeBvf3EvHRwVQ8iGTlkA3OLPjmM&s=_VPtSmdnZqG4v9G1aeaJxydeI7q5DPr9nv4XCjZ6DCI&e=)).  This clarifies the text for block ack state processing, as requested.”

* + - 1. Moved: Michael MONTEMURRO
      2. Seconded: Edward AU
      3. Discussion: none
      4. **Result for Motion #223: Unanimous Consent – Motion passes.**
  1. **Review doc 11-20/0272r12 - CID 4694 - Graham Smith (SR Technologies)**
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-12-000m-cids-from-mike-to-graham-2.docx>
     2. CID 4694 (PHY)
        1. Review changes from last time we discussed the document.
        2. Proposal of Option 1 and Option2 (author prefers Option 2)
        3. Discussion on changes to the option 1.
        4. The change in D3.4 may not have this text remaining. Review the context of the changes in D3.4.
        5. Review 10.2.3.2 for context. This has been rewritten, so an update will need to be made relative to D3.4.
        6. Continue the review of the other changes.
           1. Note: 1825.15 and 1825.38 change article from “the” to “a”
        7. P1731 has a same construction that needs to be updated as well. Check against the D3.4 to ensure proper correction to match the 1717.62 change.
        8. Time on the Friday 31 July Telecon will be scheduled.
  2. **Review Doc 11-20/0435r7 - Mark Rison CIDs - Mark RISON (Samsung)**
     1. CIDs 4565, 4616, 4620, and 4623 for direction, 4137, 4808 (re-visit), 4229/4266,
     2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
     3. CID 4137 (PHY)
        1. Alternate Proposal from Youhan KIM (Qualcomm): RevisedNote to Commenter:23.3.19 (PHY receive procedure) clearly states that S1G STAs “shall maintain PHY-CCA.inditation(BUSY, channel-list) for the predicted duration of the transmitted PPDU … for all … Reserved SIG or SIG-A Indication” (D3.3 P3434L28). This allows future 802.11 amendment(s) to set the reserved bit to the ‘other’ value (0 in this case), and S1G STAs will defer for the duration of that ‘new’ PPDU and not interfere with it. This allows S1G and future amendment STA to successfully coexist, and thus is a ‘reserved’ bit (reserved for future use).

The reserved bit is set to the value 1 because the SIG field is not scrambled, hence could have a long string of contiguous 0 bits, which could lead to high PAPR of the SIG symbol. Hence, reserved bits in PHY preamble are typically set to 1 to avoid such occurrence of long string of 0 bits.During the review of the comment, however, it was found that “Reserved SIG-B Indication” at REVmd D3.4 P3442.8 is not defined. While the comment was on short preamble, and SIG-B exists only for long preamble, this is deemed an error worth correcting. The instruction to editor below defines that term.

Instruction to Editor:Add the following sentence at REVmd D3.4 P3442L8.“Reserved SIG-B Indication is defined as an SIG-B with Reserved bits equal to 0 or MCS not included in 23.5 (Parameters forS1G-MCSs).”

* + - 1. Discussion of the alternate proposal.
         1. Original comment noted ambiguity.
         2. Discussion on the terminology that should be used.
      2. Indication that description of the bits being “ignored” should be described.
      3. Discussion of difference of MAC section and PHY sections in describing reserved bits. Receiver behaviour needs to be clearly noted.
      4. Concern on changing field names may cause confusion in future reviews/use of the standard.
      5. Discussion on the receiver behaviour when the reserved bit is 0 or not.
      6. Straw Poll: Change “Reserved” to “Fixed” as indicated in Clause 23?
         1. Yes, No, Abstain.
         2. Results of Straw Poll: 3-9-5
      7. Direction is to not make change to field name.
      8. Straw Poll on alternate Resolution:
         1. Add the following sentence at REVmd D3.4 P3442L8.“Reserved SIG-B Indication is defined as an SIG-B with Reserved bits equal to 0 or MCS not included in 23.5 (Parameters forS1G-MCSs).”
         2. Results: 8-0-7
      9. Suggest that we fix the grammar: change “defined as an SIG-B with” to “defined as a SIG-B with”
      10. Need to check if more than one reserved bit.
      11. Out of Time –
      12. ACTION ITEM: Mark R. and Youhan K. to work on the reflector to find a final resolution
  1. **Next Call is Wednesday, July 29th**
  2. **Adjourn 12:03pm**

1. **IEEE 802.11md REVmd CRC Telecon Wednesday July 29, 2020 16:00-18:00 ET**
   1. **Called to order at 16:04** ET by the TG Chair Dorothy STANLEY (HPE)
   2. **Review Patent and Participation Policy**
      1. No Issues noted.
   3. **Attendance:** -please log with IMAT:
      1. About 25 attendees reported by WebEx
   4. -please log with IMAT:
      1. About 16 attendees reported by WebEx

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TGmd | 7/29 | Aboulmagd, Osama | Huawei Technologies Co. Ltd |
|  | TGmd | 7/29 | Andersdotter, Amelia | None - Self-funded |
|  | TGmd | 7/29 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
|  | TGmd | 7/29 | Coffey, John | Realtek Semiconductor Corp. |
|  | TGmd | 7/30 | Das, Dibakar | Intel Corporation |
|  | TGmd | 7/29 | Fischer, Matthew | Broadcom Corporation |
|  | TGmd | 7/30 | Hamilton, Mark | Ruckus Wireless |
|  | TGmd | 7/29 | Kim, Youhan | Qualcomm Incorporated |
|  | TGmd | 7/30 | Knodel, Mallory | Center for Democracy and Technology |
|  | TGmd | 7/29 | Levy, Joseph | InterDigital, Inc. |
|  | TGmd | 7/30 | NANDAGOPALAN, SAI SHANKAR | Cypress Semiconductor Corporation |
|  | TGmd | 7/29 | Qi, Emily | Intel Corporation |
|  | TGmd | 7/29 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 7/29 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 7/30 | Stanley, Dorothy | Hewlett Packard Enterprise |

* + 1. Missing from IMAT: Guido R. Hiertz (Ericsson)
  1. **Review Agenda**: 11-20/1001r8:
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-08-000m-2020-july-august-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 5-15 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>

2. Editor report – Emily QI/Edward AU

– see <https://mentor.ieee.org/802.11/dcn/19/11-19-2156> .

Total of 820 comments; approximately 200 comments remaining.

Editors prepared D3.4 incorporating all approved comments to date. Draft 3.4 available on Monday 2020-07-13. See <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-27-000m-802-11revmd-editor-s-report.ppt>.

3. Comment resolution

a) 2020-07-29 Wednesday 4-6pm Eastern 2 hours

i. Mallory KNODEL, revisit CID 4499 <https://mentor.ieee.org/802.11/dcn/20/11-20-1137-01-000m-revisiting-cid4499-11md-d3-0-exclusionary-language.docx> ii. Mark RISON – CID 4286 (EAP Terminology) iii. Guido HIERTZ – CID 4003, <https://mentor.ieee.org/802.11/dcn/20/11-20-1116-01-000m-resolution-to-cid-4003.docx> iv. Osama ABOUL-MAGD - <https://mentor.ieee.org/802.11/dcn/20/11-20-0814-02-000m-proposed-resolutions-to-cids-4145-4146-and-4147.docx> v. Jon ROSDAHL – GEN CIDs

4.       AOB

5. Adjourn

* + 1. Discussion of Agenda
       1. An Update after July 24th was not posted.
       2. Review changes to agenda and identify who is on the call.
       3. Mark RISON would like to defer his item. He is waiting on rejection rationale. There was a rejection proposal posted last week, so we can review it today.
    2. No objection to updated Agenda see doc 11-20/1001r9
  1. **Editor Report** – Emily QI (Intel)
     1. Review 2156r16
        1. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156-16-000m-revmd-sponsor-ballot-comments.xls>
        2. Comment Status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Owning**  **Ad-hoc** | **Assigned** | **Discuss** | **Resolution Drafted** | **Ready for Motion** | **Approved** | **Grand Total** |
| EDITOR |  |  | 7 |  | 723 | 730 |
| GEN | 20 | 6 | 1 |  |  | 27 |
| MAC | 49 |  | 3 | 4 |  | 56 |
| EDITOR2 |  |  |  | 1 |  | 1 |
| PHY | 3 |  |  | 3 |  | 6 |
| **Grand Total** | **72** | **6** | **11** | **8** | **723** | **820** |

* + - 1. **Roughly we have about 100 CIDs left to resolve.**
  1. **Review doc 11-20/1137r1 revisit CID 4499** - Mallory KNODEL (Center for Democracy and Technology)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1137-01-000m-revisiting-cid4499-11md-d3-0-exclusionary-language.docx>
     2. Abstract - This submission proposes to revisit the resolution of CID4499 from letter ballot on 11md/D3.0
     3. Review proposed resolution
     4. Proposed resolution:
        1. REVISED; In 9.5.6 Beamformed Link Maintenance field inc. Figure 9-852—Beamformed Link Maintenance field format and Table 9-344—The Beamformed Link Maintenance negotiation, change “isMaster” to “isController” (5x). In 9.5.6 Beamformed Link Maintenance field change “master of the data transfer” to “controller of the data transfer”.

In 11.1.2.1 TSF for an infrastructure BSS or a PBSS change “timing master” to “timing source”.

In 3.3 change “master white space device” to “authoritative white space device”. In B.4.26 TVWS functions change “Master STA TVWS operation” to “Authoritative STA TVWS operation”.

NOTE: WG Chair should be requested to raise in the appropriate forum guidance from the IEEE-SA staff and management with respect to exclusionary language.

* + 1. There are other places that this subject is being discussed, i.e. 1588.
    2. Discussion on the use of terms of that may be construed as racist.
    3. Request to contact the IEEE-SA prior to any changes.
    4. Discussion on whether some words are used today are going to be rejected again in the future.
    5. Discussion on the many meanings of “Master” and the context of the use of words should be scrutinized more before changes are made.
    6. Discussion on changing when there is not a pairing of words, but rather where it will be more readable.
    7. CID 4499 (EDITOR): No change to the approved rejection in motion #162.
  1. **CID 4286 Michael MONTEMURRO (self)**
     1. Mark RISON – CID 4286 (EAP Terminology) - deferred to Michael.
     2. Review the rejection reason that was shared to the reflector.
     3. CID 4286 (PHY) - Proposed Resolution: Rejected: With the definition of ”IEEE 802.1X authentication" with wording that makes it clear that it refers to the case of IEEE 802.1X being used with EAP (and not the newer PSK option),  the current standard is unambiguous. It is useful to reference "EAP authentication" whenever talking about MSK (that is a key coming from EAP, not 802.1X; 802.1X state machine is simply providing access to fetching it; this includes the cases like "key is received .. from the EAP authentication" that does not explicitly use MSK but is referring to it). Similarly, "full EAP authentication" is a significantly more accurate term than "full 802.1X authentication". "EAP authentication session timeout" feels more appropriate as well. "Successful completion of EAP authentication over IEEE Std 802.1X establishes a PMKSA" could, in theory, be "Successful completion of IEEE 802.1X authentication establishes a PMKSA" since this skips the MSK to the PMK detail, but it is still correct to talk about EAP authentication here and "successful EAP authentication" is clearly defined in the EAP RFC while "Successful completion of IEEE 802.1X authentication" is not that clearly defined.  The current language is more appropriate than the proposed changes at most locations and correct in all locations.
     4. Mark Ready for Motion.
  2. **Review doc 11-20/1116r1 CID 4003** - Guido R. Hiertz (Ericsson)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1116-01-000m-resolution-to-cid-4003.docx>
     2. CID 4003 (MAC)
        1. Reviewed submission
        2. Proposed Resolution: CID 4003 (MAC): REVISED (MAC: 2020-07-29 20:41:10Z): Incorporate the changes as shown in 11-20/1116r2 (https://mentor.ieee.org/802.11/dcn/20/11-20-1116-02-000m-resolution-to-cid-4003.docx), which makes the changes requested and aligns the text with the new figure.
        3. Discussion on clarifying the text to be DMG or CMMG.
        4. An R2 will be created with grammar change.
        5. A Visio file of the figure will also be sent to the Editors.
        6. No objection – Mark Ready for Motion.
  3. **Review doc 11-20/814r2 -** Osama ABOUL-MAGD (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0814-02-000m-proposed-resolutions-to-cids-4145-4146-and-4147.docx>
     2. CID 4144 (EDITOR) revisit, and CID 4145, 4147 (MAC):
        1. Discussion on the rationale for the changes.
        2. Discussion on an email thread that had been exchanged on this topic.
        3. A question Traffic Category on the reflector was not responded to.
        4. Discussion on the history of CID 4144.
        5. Rejection for CID 4144 (EDITOR) resolution: REJECTED (GEN: 2020-07-24 03:36:11Z) - An MSDU can either have a relative priority referred to as Traffic Category (TC), or belong to a Traffic Stream (TS). The TC or TS is then mapped to a User Priority (UP), which is subsequently mapped to Access Category (AC), which is associated with an EDCAF.

TC and TS are also used for block ack signaling.

Therefore, it appears that the extra level between UP and TC is required, essentially because there are also TSs on which an MSDU can be transmitted.

* + - 1. ACTION ITEM: Request Payam and Menzo to weigh in.
    1. CID 4146 (MAC)
       1. Review comment
       2. Review proposed changes.’
       3. Discussion of the way EDCA and TSPECs are used together.
       4. Does EDCA use TS? Yes, you can. The UP goes into the QoS control field.
       5. Discussion on the fact that this may be ambiguous, it may be better to do at the start of the revision project rather than at the end.
          1. This may be better reviewed in TGme.
       6. More work needed.
    2. CID 4751 (PHY)
       1. Review Comment
       2. Review submission discussion.
       3. Review uses of “UP” and where it is defined.
       4. Proposed resolution should be along the lines of rejection if further consensus can be found.
       5. The full set of CIDs should be similar in rejection resolutions if we do not get to a consensus next week. (CID 4144 (EDITOR) revisit, and CID 4145, 4147 (MAC): CID 4146 (MAC); CID 4751 (PHY) )
       6. ACTION ITEM: Payam T., Michael M., Menzo, Thomas D., Sai P, Osama, Mark H. and Dibakar D. requested to weigh in on this issue.
       7. Discussion on the use of TSPEC element and the TCLAS element is not being used in products. Only 4 Queues are identified in the spec, and there is a mapping that was defined.
       8. Put back on the agenda for August 4, 2020.
       9. Reflector discussion should be done before the next agenda time.
       10. Discussion on the Mapping that may be diverging.
  1. **GEN CIDs –** Jon ROSDAHL
     1. CID 4161 (GEN)
        1. See doc 11-20/1084r0
        2. <https://mentor.ieee.org/802.11/dcn/20/11-20-1084-00-000m-resolution-to-cid-4161.docx>
        3. Review comment.
        4. Review submission diagram
        5. Proposed Resolution: REVISED (GEN: 2020-07-29 21:23:38Z); The channel numbers in the Australia and New Zealand tables appear to be incorrect (do not match the channelization with other countries.

With reference to D3.0

At 4383.46 (row 22), change "28, 32" to "30, 34"

At 4383.52 (row 23), change “30” to “32”

At 4384.16 (row 27), change “28, 32, 36, 40” should be “30, 34,38, 42”

At 4384.21 (row 28), change “30, 38” to “32, 40”

At 4384.27 (row 29), change “34” to “44”

* + - 1. No objection – Mark Ready for Motion
    1. CID 4685 (GEN)
       1. See doc 11-20/0435r8:
          1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
       2. Review comment
       3. Review proposed changes.
       4. Change the cited text to (note: no space in “S1GOperation”):
       5. Proposed resolution: REVISED (GEN: 2020-07-29 21:30:22Z) - Change the cited text to (note: no space in “S1GOperation”):

If the MLME of an S1G STA receives an MLME-JOIN.request primitive with a SelectedBSS parameter containing a Basic S1G-MCS and NSS Set field in the S1GOperation parameter that contains any unsupported <S1G-MCS, NSS> tuple, the MLME response in the resulting MLME-JOIN.confirm primitive shall contain a ResultCode parameter that is not set to the value SUCCESS.

Change the last para of 6.3.11.2.4 Effect of receipt to (ditto):

If the MLME of an S1G STA receives an MLME-START.request primitive with a Basic S1G-MCS and NSS Set field in the S1GOperation parameter containing any unsupported <S1G-MCS, NSS> tuple, the MLME response in the resulting MLME-START.confirm primitive shall contain a ResultCode parameter that is not set to the value SUCCESS.

* + - 1. No objection – Mark Ready for Motion.
    1. CID 4583 (GEN)
       1. See doc 11-20/0435r8:
          1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
       2. Review Comment
       3. Review proposed changes
       4. Discussion on Beacon Request.
       5. Proposed resolution: REVISED (GEN: 2020-07-29 21:32:16Z) Change the second and fourth cells of the AP Channel Report row in the second table in 6.3.3.3.2 Semantics of the service primitive (329.44 in D3.4) to “Set of AP Channel Report elements” and “The values from the AP
       6. Channel Report element(s) if present in the Probe Response(#18) or Beacon frame, else null.” respectively.
       7. No objection – Mark Ready for Motion.
    2. CID 4550 (GEN)
       1. See doc 11-20/0435r8:
          1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
       2. Review comment
       3. Review proposed change
       4. Proposed resolution: REVISED (GEN: 2020-07-29 21:34:31Z) In D3.4 add a new sentence to the end of the last para of the DESCRIPTION for dot11Class2CapabilitiesOptionImplemented (4221.65): “This attribute is false if the STA is not operating in the 2.4 GHz band.” Also at the start of the existing sentence change “value” to “attribute”.
       5. No objection – Mark Ready for Motion.
    3. CID 4515 (GEN)
       - 1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
       1. Review comment
       2. Review Proposed changes.
       3. No objection to the direction of the changes.
       4. Discussion on the Scrambler reset not being present in Clause 18, but it is present in Clause 17.
       5. In Clause 18.2, the service parameter should follow clause 17. However, there is information on TX-STATUS and TX-VECTOR in this sub-clause. There seems to be an inconsistency. The is a scramble reset specified in Clause 17.2.2, but not in Clause 18. Its unclear that there is any reason to refer back to Clause 17.
       6. These changes went in with Fine Timing Measurement so perhaps Brian HART could be consulted.
       7. There appears to be agreement with the direction and we can proceed with the changes as described.
       8. Leave the changes out of Clause 23.
       9. The deletion in 18.2 should be reviewed.
       10. Proposed resolution: REVISED (GEN: 2020-07-29 21:38:04Z) Make the changes shown under “Proposed changes” for CID 4515 in 11-20/435r8 <<https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>>, which address the issue raised by the commenter.
       11. Mark Ready for Motion
       12. If there is an issue identified in the review, we will pull from motion.
       13. Keep the changes to just the target of the comment.
       14. ACTION ITEM: Mark RISON to follow-up with Youhan and Sean on the changes.
    4. CID 4458 (GEN)
       1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
       2. Review Comment
       3. Review the submission discussion.
       4. Proposed Resolution: REVISED (GEN: 2020-07-29 21:52:12Z) Make the changes shown under “Proposed changes” for CID 4458 in 11-20/0435r8 <<https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>>, which address the issue raised by the commenter, including the interplay between dot11ExtendedChannelSwitchActivated and dot11OperatingClassesRequired.
       5. Discussion on Operating Classes “required” vs “implemented”. There is a difference between “implemented” and “required”. “required” means the STA must do something.
       6. The changes take into account when a feature is required.
       7. More work needed. The changes need to be reviewed.
       8. Leave it open to check the changes.
    5. Schedule to revisit GEN CID 4458 (Mark R.) as well as CIDs 4272 (Mark R.) and 4162 (Edward) on Tuesday August 4.
  1. **Review Agenda for Friday – July 31:**
     1. i. Mark HAMILTON – MAC CIDs – 4370, 4653, 4652ii. Graham Smith CID 4694 https://mentor.ieee.org/802.11/dcn/20/11-20-0272-10-000m-cids-from-mike-to-graham-2.docx iii. Mark RISON, Youhan KIM – CID 4137iv. Assaf KASHER – CID 4763v. Menzo WENTINK – including CIDs 4725, 4143, 4761, 4811 <https://mentor.ieee.org/802.11/dcn/20/11-20-0150-15-000m-assorted-crs-revmd-draft-3-0.docx> , vi. Mark Rison – CIDs 4565, 4616, 4620, and 4623 for direction, 4808 (re-visit), 4229/4266, see <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx> also 4113, 4247, 4629, 4602, 4527, 4525, 4523, 4477, 4220, 469911/dcn/20/11-20-0150-15-000m-assorted-crs-revmd-draft-3-0.docx , vi. Mark Rison – CIDs 4565, 4616, 4620, and 4623 for direction, 4808 (re-visit), 4229/4266, see <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx> also 4113, 4247, 4629, 4602, 4527, 4525, 4523, 4477, 4220, 4699
  2. **Adjourned 6:01pm**

1. **IEEE 802.11md REVmd CRC Telecon Friday July 24, 2020 10:00-12:00 ET**
   1. **Called to order at 10:05am** ET by the TG Chair Dorothy STANLEY (HPE)
   2. **Review Patent and Participation Policy**
      1. No Issues noted.
   3. **Attendance:** -please log with IMAT:
      1. About 25 attendees reported by WebEx
   4. -please log attendance with IMAT:
      1. About 10 attendees reported by WebEx

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TGmd | 7/31 | Coffey, John | Realtek Semiconductor Corp. |
|  | TGmd | 7/31 | Hamilton, Mark | Ruckus Wireless |
|  | TGmd | 7/31 | Kim, Youhan | Qualcomm Incorporated |
|  | TGmd | 7/31 | Kwon, Young Hoon | NXP Semiconductors |
|  | TGmd | 7/31 | Malinen, Jouni | Qualcomm Incorporated |
|  | TGmd | 7/31 | McCann, Stephen | Self |
|  | TGmd | 7/31 | Qi, Emily | Intel Corporation |
|  | TGmd | 7/31 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 7/31 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 7/31 | Stanley, Dorothy | Hewlett Packard Enterprise |

* + 1. Missing from IMAT: None reported
  1. **Review Agenda**: 11-20/1001r9:
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-09-000m-2020-july-august-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 5-15 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>

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

https://mentor.ieee.org/802.11/dcn/19/11-19-2156. Total of 820 comments; approximately 200 comments remaining. See <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-27-000m-802-11revmd-editor-s-report.ppt> .

D3.4 is available and includes resolution approved in May and June motions.

3.       Comment resolution

a) 2020-07-31 Friday 10 am Eastern 2 hours

i. Mark HAMILTON – MAC CIDs – 4370, 4653, 4652

ii. Graham Smith CID 4694 <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-10-000m-cids-from-mike-to-graham-2.docx>

iii. Mark RISON, Youhan KIM – CID 4137

iv. Assaf KASHER – CID 4763

v. Menzo WENTINK – including CIDs 4725, 4143, 4761, 4811 <https://mentor.ieee.org/802.11/dcn/20/11-20-0150-15-000m-assorted-crs-revmd-draft-3-0.docx> ,

vi. Mark Rison – CIDs 4565, 4616, 4620, and 4623 for direction, 4808 (re-visit), 4229/4266, see <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx> also 4113, 4247, 4629, 4602, 4527, 4525, 4523, 4477, 4220, 4699

4.       AOB:

i. Review TGmd schedule – roughly 100 CIDs remain;

* Target D 4.0 in August; D5.0 in September
* August 7th motion for recirculation,
* August 21 – Editors have draft,
* 15-20 day recirc ballot, end by September 8.
* Hold several meetings during September plenary for comment resolution.
* Sept/early Oct D5.0 WG approval to send to EC for forwarding to RevCom – likely electronic
* Sept/Oct – D5.0 Unchanged recirc
* 6 Oct – 802 EC Approval, Draft TGme PAR (next revision)
* 13 October – Draft to RevCom
* 2020 Dec RevCom/SASB

5. Adjourn

* + 1. Discussion of Agenda
       1. No changes
    2. No objection to updated Agenda see doc 11-20/1001r9
  1. **Editor Report** – Emily QI (Intel)
     1. Working on implementation of approved resolutions.
     2. Nearly complete, then ready for next week’s motion for resolution.
  2. **MAC CIDs – 4370, 4653, 4652** -- Mark HAMILTON –(Ruckus/Comscope)
     1. Doc 11-20/338r15:
        1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0338-15-000m-revmd-initial-sa-comments-assigned-to-hamilton.docx>
     2. CID 4653 (MAC) CID 4652 (EDITOR)
        1. Review comments
        2. Review history of the comments.
        3. Proposed Resolution for both CIDs: Revised. Change the referenced sentence to, “The Rejected Groups element is conditionally present if the Status Code is 126, as described in 12.4.7.4.”
        4. CID 4652 was resolved with motion #167 with Accepted.
        5. We will update/revisit CID 4652 – update the resolution and remotion.
        6. Mark Both Ready for Motion
     3. CID 4370 (MAC)
        1. Not ready to present.
        2. Review discussion in submission.
        3. Discussion on “Initial” Fine Timing Measurement Request frame.
        4. Discussion on why just changing the name which is needed is not clear to know which name to change it to.
        5. Discussion on possible change to p1355.30.
           1. Line 30 is the response to the Initial Fine Timing Request frame.
        6. After much discussion decided that it is just accepted.
        7. From the Chat Window:
           1. from [V] Assaf Kasher Qualcomm to everyone:

I agree with Mark R

* + - * 1. from [V] Mark RISON Samsung to everyone:

"The Status Indication (#2115)subfield and Value (#2115)subfield are reserved in the initial Fine Timing

Measurement Request frame."

* + - * 1. from [V] Mark RISON Samsung to everyone:

"In order to initiate an FTM(#1022) procedure, a STA that supports the FTM procedure as an initiator (referred to as an initiating STA) shall transmit a Fine Timing Measurement Request frame. This frame is called the initial Fine Timing Measurement Request frame. After transmission of this frame, the initiating STA shall be ready to receive a Fine Timing Measurement frame."

* + - 1. Proposed Resolution: Accepted
      2. Mark Ready for Motion.
  1. CID 4137 - Mark RISON (Samsung) , Youhan KIM (Qualcomm)
     1. Email was sent out on Friday July 24 requesting feedback.
     2. CID 4137 (PHY)
        1. From email exchange put in chat window:
           1. from [V] Youhan Kim Qualcomm to everyone:

Revised

Note to Commenter:

23.3.19 (PHY receive procedure) clearly states that S1G STAs “shall maintain PHY-CCA.inditation(BUSY, channel-list) for the predicted duration of the transmitted PPDU … for all … Reserved SIG or SIG-A Indication” (D3.3 P3434L28). This allows future 802.11 amendment(s) to set the reserved bit to the ‘other’ value (0 in this case), and S1G STAs will defer for the duration of that ‘new’ PPDU and not interfere with it. This allows S1G and future amendment STA to successfully coexist, and thus is a ‘reserved’ bit (reserved for future use).

The reserved bit is set to the value 1 because the SIG field is not scrambled, hence could have a long string of contiguous 0 bits, which could lead to high PAPR of the SIG symbol. Hence, reserved bits in PHY preamble are typically set to 1 to avoid such occurrence of long string of 0 bits.

During the review of the comment, however, it was found that “Reserved SIG-B Indication” at REVmd D3.4 P3442.8 is not defined. While the comment was on short preamble, and SIG-B exists only for long preamble, this is deemed an error worth correcting. The instruction to editor below defines that term.

Instruction to Editor:

Add the following sentence at REVmd D3.4 P3442L8.

“Reserved SIG-B Indication is defined as a SIG-B with any of the Reserved bits equal to 0 or MCS not included in 23.5 (Parameters for S1G-MCSs).”

* + - 1. Discussion on use of Hyphens
         1. “field not all-1s” needs to be reworded.
      2. Bits of the Reserved field not all 1s.
      3. Change the Instruction to the Editor to: Add the following sentence at REVmd D3.4 P3442L8: “Reserved SIG-B Indication is defined as a SIG-B with the bits of the Reserved field not all 1s or MCS not included in 23.5 (Parameters for S1G-MCSs).”
      4. Updated proposed resolution: Revised;

Note to Commenter:

23.3.19 (PHY receive procedure) clearly states that S1G STAs “shall maintain PHY-CCA.inditation(BUSY, channel-list) for the predicted duration of the transmitted PPDU … for all … Reserved SIG or SIG-A Indication” (D3.3 P3434L28). This allows future 802.11 amendment(s) to set the reserved bit to the ‘other’ value (0 in this case), and S1G STAs will defer for the duration of that ‘new’ PPDU and not interfere with it. This allows S1G and future amendment STA to successfully coexist, and thus is a ‘reserved’ bit (reserved for future use).

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Instruction to Editor:

Add the following sentence at REVmd D3.4 P3442L8: “Reserved SIG-B Indication is defined as a SIG-B with the bits of the Reserved field not all 1s or MCS not included in 23.5 (Parameters for S1G-MCSs).”

* + - 1. Mark Ready for Motion
  1. **CID 4763 -** Assaf KASHER (Qualcomm)
     1. See doc 11-20/1136r0:
        1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1136-00-000m-sb1-resolution-to-cid-4763.docx>
     2. CID 4763 (MAC)
        1. Review comment
        2. Review submission discussion.
        3. The comment is being rejected, but there was some other issues that were found in the research that may need to be addressed.
        4. Proposed resolution for CID 4763: CID 4763 (MAC): REJECTED (MAC: 2020-07-31 14:48:04Z): From the point of view of the receiver, its worthwhile to have some text indicating that the RXSS length includes “virtual rx patterns”. It is mentioned in the definition of the RXSS Length fields (in the DMG capabilities element, the SSW field and the BF control field. However, it is worth mentioning also in this place.

For more discussion, please see 11-20/1136r0 (<https://mentor.ieee.org/802.11/dcn/20/11-20-1136-00-000m-sb1-resolution-to-cid-4763.docx>).

* + - 1. Mark Ready for Motion
    1. Other issues found.
       1. While searching the definition(s) of RXSS length two issues were found:
          1. In the CDMG Extended Schedule element, in the BF control field, RXSS Length is 7 bit. For the definition of the field it points to 9.5.5 Beamforming Control Field where it is 6 bits only and the definition is “The value represented by this subfield is in the range 2 to 128 and is given by (RXSS Length+1)×2” which makes sense only for a 6 bit field. Since the CMMG beamforming procedure refers to DMG beamforming (10.42), the correct size is 6.
       2. Reviewed Proposed changes for CDMG, and CMMG
       3. Question on changing from 7 bits to 6 bits and if the position of the other bits should be kept, and a reserved inserted appropriately.
       4. Heartbeat vs Heart beat needs to be without a space.
       5. Need to have a better heading in the document to determine where the separate motion changes will be applied.
       6. Possible Motion for next week: a. Incorporate the changes indicated in https://mentor.ieee.org/802.11/dcn/20/11-20-1136-00-000m-sb1-resolution-to-cid-4763.docx after “Separate Issues found in CDMG and CMMG”, pages 3 and 4
       7. A revision to put in the separator for the separate issues to be added. Also updates to the Heartbeat note inline rather than in margin.
       8. Discussion on the capitalization of the “bits” again.
          1. Figure 9-672 (D3.0 numbering) has "bits:" (lower case), FYI for editors to note.
       9. ACTION ITEM: Edward AU: Need to check that the changes being made are verified with the CMMG and CDMG experts with R1.
       10. Page 1444.15/.16 to check case and number of octets . Will be addressed in R1.
  1. **Review doc 11-20/435r8** - Mark Rison (Samsung)
     1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
     2. CID LIST:
        1. – CIDs 4565, 4616, 4620, and 4623 for direction,
        2. 4808 (re-visit), 4229/4266,
        3. also 4113, 4247, 4629, 4602, 4527, 4525, 4523, 4477, 4220, 4699
     3. CID 4515 (GEN)
        1. Review previous proposed resolution.
        2. Review of the case by case of the notes with questions. No additional changes to the resolution being requested.
           1. First question was noted that 11aq added scrambler to clause 17, but not other clauses.
           2. Other issues found in this text, upon off-line review. But, okay with the resolution as agreed on prior call, and handle the other issues separately and later.
     4. CID 4565 (EDITOR)
        1. Review comment
        2. Review submission discussion.
        3. Review proposed changes to remove the “arrows”.
        4. These changes are in R9. – it was uploaded to make available to all real-time.
           1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-09-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
     5. Mark RISON’s laptop crashed…Dorothy presented R8 and we continued reviewing CIDs.
     6. CID 4618 (EDITOR)
        1. Review Comment
        2. Review submission discussion
        3. Review proposed changes.
        4. Proposed resolution: REVISED; In D3.4:

Change “transmit address” to “transmitter address” at 218.1, 1060.12, 2144.27, 2294.1, 2578.62, 2589.10, .

Change “Receive address” to “Receiver address” at 3626.42.

Change “The Transmit Address field contains the Transmitter Address (TA) from the frames being reported.” to “The Transmitter Address field contains the transmitter address (TA) from the frames being reported.” and change “Transmit Address” to “Transmitter Address” on page 1059.

Delete “Each Frame Report Entry field contains the Transmit Address, BSSID, PHY Type, Average RCPI, Last RSNI, Last RCPI, Antenna ID, and Frame Count for the frames counted in this Frame Report Entry field.” at 2294.5.

Change “The RSNA architecture binds the transmit and receive addresses to the pairwise key.” to “The RSNA architecture binds the transmitter and receiver addresses to the pairwise key.” at 2637.14.

Change “transmitting STA address (TA), and receiving STA address (RA)” to “transmitter address (TA), and receiver address (RA)” at 794.7.

* + - 1. On page 1061 – figure 9-235 - change “Transmit Address” field name to “Transmitter” was questioned.
      2. Discussion the usage of the Frame Report Entry.
      3. Suggestion is to not make the change for Transmit Address field name.
         1. Change “The Transmit Address field contains the Transmitter Address (TA) from the frames being reported.” to “The Transmitter Address field contains the transmitter address (TA) from the frames being reported.” and change “Transmit Address” to “Transmitter Address” on page 1059.
      4. The alternative would be to have “transmitter address (TA)” with the change of case.
      5. Page 795 gives the definition of TA field.
      6. Proposed resolution: CID 4618 (EDITOR): REVISED

In D3.4:

Change “transmit address” to “transmitter address” at 218.1, 1060.12, 2144.27, 2294.1, 2578.62, 2589.10, .

Change “Receive address” to “Receiver address” at 3626.42.

Change “The Transmit Address field contains the Transmitter Address (TA) from the frames being reported.” to “The Transmit Address field contains the transmitter address (TA) from the frames being reported.”

Delete “Each Frame Report Entry field contains the Transmit Address, BSSID, PHY Type, Average RCPI, Last RSNI, Last RCPI, Antenna ID, and Frame Count for the frames counted in this Frame Report Entry field.” at 2294.5.

Change “The RSNA architecture binds the transmit and receive addresses to the pairwise key.” to “The RSNA architecture binds the transmitter and receiver addresses to the pairwise key.” at 2637.14.

Change “transmitting STA address (TA), and receiving STA address (RA)” to “transmitter address (TA), and receiver address (RA)” at 794.7.

* + - 1. No objection - Mark Ready for Motion
    1. CID 4565 (EDITOR) – (return after crash)
       1. Review context of changes
       2. Discussion on the deletion of “MAC header” and arrows in figures.
       3. While there may be alternatives to the resolution, major objection was not made.
       4. Proposed Resolution: REVISED In D3.4:

Delete the “MAC header” label and arrows in

Figure 9-30—RTS frame format

Figure 9-31—CTS frame format

Figure 9-32—Ack frame format

Figure 9-33—PS-Poll frame format

Figure 9-34—CF-End frame format

Figure 9-35—BlockAckReq frame format

Figure 9-41—BlockAck frame format

Make Figures 9-30/31/32/34 have searchable text, like Figures 9-33/35/41 (rather than being just pixels).

Add an arrow labelled “MAC header” to Figure 9-985—PV1 Management frame format, under the boxes, from the left of Frame Control to the right of A3.

Add “ format” to the end of the caption for Figure 9-65—Data frame and of the heading for Subclause 9.3.1.9 Control Wrapper frame.

* + - 1. Mark Ready for motion
    1. CID 4655, 4656, 4657 (MAC):
       1. Review comment
       2. Review submission discussion
       3. Proposed resolution: CID 4655, 4656, 4657 (MAC): REVISED (MAC: 2020-07-31 15:51:17Z):

Replace "Defined in 12.7.1.6.2 using SHA-256" with "Defined in 12.7.1.6.2 using the hash algorithm specified in 12.4.2" in the Key derivation type cell for the 00-0F-AC:8 and 00-0F-AC:9 rows in Table 9-153—AKM suite selectors (11md/D3.4 at 1104.15/26).

In addition, replace "The key derivation function from 12.7.1.6.2 shall then be used with the hash algorithm identified by the AKM suite selector (see Table 9-153)" with "The key derivation function from 12.7.1.6.2 shall then be used with the hash algorithm identified for H() (see 12.4.2)" in 12.4.5.4 Processing of a peer’s SAE Commit message (11md/D3.4 at 2565.42).

Change “00:0F:AC-” to “00-0F-AC:” (2x) in 12.4.5.4 Processing of a peer’s SAE Commit message (11md/D3.4 at 2565.48).

* + - 1. No objection – Mark Ready for Motion
    1. CID 4662 (EDITOR)
       1. Review comment
       2. Review proposed changes.
       3. Proposed resolution: Revised; Make the changes shown under “Proposed changes” for CID 4662 in 11-20/435r9 <<https://mentor.ieee.org/802.11/dcn/20/11-20-0435-09-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>> which make the change suggested, fixing the typo and adding one more “When”.
       4. No objection – Mark Ready for Motion
    2. CID 4808 (EDITOR): Revisit of MAC CID.
       1. Previously disposed with Motion #196.
       2. Review comment and review proposed changes to be made.
       3. Discussion on “optionally” being deleted.
       4. Conditional vs optional may be an issue to review in the future.
       5. Agreed with direction. Needs a bit more work.
    3. There are other CIDs that have been resolved that Mark RISON would like to revisit.
  1. Review agenda for Next Telecon for Aug 3rd
  2. Adjourn 10:01 am ET.

**References:**

**July 22:**

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-05-000m-2020-july-august-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>
3. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156>
4. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-27-000m-802-11revmd-editor-s-report.ppt>
5. <https://mentor.ieee.org/802.11/dcn/20/11-20-0947-01-000m-proposed-resolutions-for-cid-4050.doc>
6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0947-02-000m-proposed-resolutions-for-cid-4050.doc>
7. <https://mentor.ieee.org/802.11/dcn/20/11-20-0150-15-000m-assorted-crs-revmd-draft-3-0.docx>
8. <https://mentor.ieee.org/802.11/dcn/20/11-20-0814-02-000m-proposed-resolutions-to-cids-4145-4146-and-4147.docx>
9. <https://mentor.ieee.org/802.11/dcn/20/11-20-0338-14-000m-revmd-initial-sa-comments-assigned-to-hamilton.docx>
10. <https://mentor.ieee.org/802.11/dcn/20/11-20-1114-01-000m-revmd-backoff-procedure-correction.docx>
11. <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-10-000m-cids-from-mike-to-graham-2.docx>

**July 24:**

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-07-000m-2020-july-august-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>
3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0929-06-000m-sb1-resolution-to-some-xdmg-cids.docx>
4. <https://mentor.ieee.org/802.11/dcn/20/11-20-0272-12-000m-cids-from-mike-to-graham-2.docx>
5. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-07-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>

**Motions and Motion related files for July 24 are below.**

**July 29:**

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-1001-09-000m-2020-july-august-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0323-00-0000-2nd-vice-chair-report-july-2020.pptx>
3. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156-16-000m-revmd-sponsor-ballot-comments.xls>
4. <https://mentor.ieee.org/802.11/dcn/20/11-20-1137-01-000m-revisiting-cid4499-11md-d3-0-exclusionary-language.docx>
5. <https://mentor.ieee.org/802.11/dcn/20/11-20-1116-01-000m-resolution-to-cid-4003.docx>
6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0814-02-000m-proposed-resolutions-to-cids-4145-4146-and-4147.docx>
7. <https://mentor.ieee.org/802.11/dcn/20/11-20-1084-00-000m-resolution-to-cid-4161.docx>
8. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-08-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>

**July 24 Motions and files:**

1. **Motion #July24: Previous Minutes -**

Approve the following minutes documents:

* June 17-19, <https://mentor.ieee.org/802.11/dcn/20/11-20-0915-02-000m-telecon-minutes-for-revmd-crc-june-17-19-2020.docx>
* June 24-30, <https://mentor.ieee.org/802.11/dcn/20/11-20-0956-04-000m-telecon-minutes-for-revmd-crc-june-24-30-2020.docx>
* July 8-10, <https://mentor.ieee.org/802.11/dcn/20/11-20-1030-02-000m-telecon-minutes-for-revmd-crc-july-8-10-2020.docx>
* July 15, <https://mentor.ieee.org/802.11/dcn/20/11-20-1099-00-000m-telecon-minutes-for-revmd-crc-july-15-2020.docx>
* July 17, [https://mentor.ieee.org/802.11/dcn/20/11-20-1111-00-000m-telecon-minutes-for-revmd-crc-july-17-2020.docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_20_11-2D20-2D1111-2D00-2D000m-2Dtelecon-2Dminutes-2Dfor-2Drevmd-2Dcrc-2Djuly-2D17-2D2020.docx&d=DwMFaQ&c=C5b8zRQO1miGmBeVZ2LFWg&r=NTHtA_KHOOrju0kuqznMMhn2PgeiJdiVcWeUfvVgSN4&m=3GFoJbsxnMAXaL3PReiJvXXr6VuGv2RwEXMx2DX8hrU&s=ikIsU5BS3nYZ2ywPBYgW2MhDiokKkNWUZ0ihVHQy174&e=)

1. **Motion #210 – EDITOR (3+1 CIDs)**

Approve the comment resolutions in the “Motion-EDITOR-W” and “Motion-EDITOR-X” tabs in : <https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls>

1. **Motion #211: PHY (31 CIDs)**

Approve the comment resolutions in the “PHY Motion G” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx>, except for 4669, 4683, 4671, 4728, 4682, 4463.

1. **Motion #212: PHY (6 CIDs)**

Approve the comment resolutions in the “PHY Motion G” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx>, Changing the resolution for CID 4463 to refer to R6 of 11-20-0929 (not R2), for 4669, 4683, 4671, 4728, 4682, 4463

1. **Motion #213 – GEN CIDs (6 CIDs)**

Approve the comment resolutions in the “Motion GEN for July 24” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls>

1. **Motion #214 – MAC (19 CIDs)**

Approve the comment resolutions in the “Motion MAC-AQ” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

1. **Motion #215 – MAC CIDs – CID 4159**

Approve the comment resolutions in the “Motion MAC-MSCS in Assoc” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

1. **Motion #216 – MAC (2 CIDs)**

Approve the comment resolutions for CID 4444 and 4746 in the “Motion MAC-AQ” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

1. **Motion #217 – Insufficient Detail CIDs – EDITOR (10 CIDs) & EDITOR2 (1 CID)**

Approve the comment resolutions in the “Motion-EDITOR2-T” tab in <https://mentor.ieee.org/802.11/dcn/19/11-19-2160-11-000m-revmd-editor2-standards-association-ballot-comments.xlsx> and   
Approve the comment resolutions in the “Insufficient Detail” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0010-10-000m-revmd-sa1-comments-for-editor-ad-hoc.xls>

1. **Motion #218 – Insufficient Detail CIDs – PHY (41 CIDs)**

Approve the comment resolutions in the “Insufficient Details” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-14-000m-sb1-revmd-phy-sec-comments.xlsx> Except for CID 4751

1. **Motion #219– Insufficient Detail CIDs – GEN (18 CIDs)**

Approve the comment resolutions in the “Insufficient Details Motion” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0147-12-000m-sb1-revmd-gen-comments.xls>

1. **Motion #220 – Insufficient Detail– MAC (6 CIDs)**

Approve the comment resolutions in the “Motion MAC Insufficient detail” tab in <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-62-000m-revmd-mac-comments.xls>

1. **Motion #221 - Random SAE fixes**

Incorporate the text changes in the “Proposed Change” sections in <https://mentor.ieee.org/802.11/dcn/20/11-20-0725-01-000m-random-sae-comments.docx> into the TGmd draft

1. **Motion #222– RSNXE interoperability fixes**

Incorporate the text changes in https://mentor.ieee.org/802.11/dcn/20/11-20-0332-04-000m-rsnxe-interoperability-issue.docx into the TGmd draft

1. **Motion #223– CID 4155**

Resolve CID 4155 as “Revised” with a resolution of “Make the changes as shown in 11-19/1564r9 ([https://mentor.ieee.org/802.11/dcn/19/11-19-1564-09-000m-originator-block-ack-state.docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_19_11-2D19-2D1564-2D09-2D000m-2Doriginator-2Dblock-2Dack-2Dstate.docx&d=DwQFaQ&c=C5b8zRQO1miGmBeVZ2LFWg&r=NTHtA_KHOOrju0kuqznMMhn2PgeiJdiVcWeUfvVgSN4&m=POVLg3M2Znkp6qfIOeBvf3EvHRwVQ8iGTlkA3OLPjmM&s=_VPtSmdnZqG4v9G1aeaJxydeI7q5DPr9nv4XCjZ6DCI&e=)).  This clarifies the text for block ack state processing, as requested.”