IEEE P802.11  
Wireless LANs

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| REVmc BRC Minutes - Sept-Oct 2015 | | | | |
| Date: 2015-10-09 | | | | |
| Author(s): | | | | |
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|  |  |  |  |  |

Abstract

R0: 2015-09-25 teleconference Minutes

R1: 2015-10-02: teleconference Minutes

R2: 2015-10-09: Teleconference Minutes

Comment resolution history: resolutions agreed, resolution discussed, update and bring back

**Sept 25:**

11-15/1018r2 - Stephen MCCANN CIDs 6759, 6760, 6763 (30 Mins)

11-15/1019r0 - Stephen MCCANN CIDs 5395, 6355 (20 mins)  
11-15/1037r2 - Graham SMITH CIDs 5198, 5495, 6209, 6210, 6779 (25 mins)  
11-15/0762r9 - Mark RISON CIDs 6375, 6376, 6377 (10 mins)  
MAC CIDs - Mark HAMILTON 5621,  (15 mins)

**Oct 2:**

MAC CIDs - Mark HAMILTON (60 mins) CIDs 6813,  6784,  6658,  6118,  6119,  6131,  5161,  6090,  5257,  6084,    
11-15/0762 - Mark RISON (25 mins): CIDs: 6482, 6479, 6480, 6496, 6676, 6677,

11-15/1090r2 - Sigurd SCHELSTRAETE (25 mins); CIDs: 5900, 5914, 5916, 5922, 5932

**Oct 9:**

11-15/1090 – Sigurd SCHELSTRAETE (10 mins): 5934, 5935, 5936, schedule time to consider resolutions for remaining assigned CIDs: 5914, 5940, 5880, 5879, 5896  
11-15-1010 - Adrian STEPHENS (50 mins) 6455, 6332, 6226, 6254, 5041, 5071, 6413, 6415, 6414, 6532, 6533, 6202, 6098, 5061, 5972, 6042,   
11-15-1180 - Emily QI (50 mins) 5212, 5214, 5218, 5216, 5217, 5219, 5220, 5221,

**Oct 14-16 Cambridge (teleconference will also be available):**

11-15/1183 - Neighbor Reports, Extended Capabilities and RM Enabled Capabilities - Ganesh VENKATESAN   
11-15/1010 - Adrian STEPHENS   
11-15/0762, 11-15/1155 - Mark RISON

11-15/1018, 11-15/1019 - Stephen MCCANN

11-15/1037 - Graham SMITH  
Additional CIDs as available

**Dial-in information:**

TGmc BRC teleconferences Sept 25, Oct 2, 9

Every Friday, from Fri, Sep 25, 2015 to Fri, Oct 9, 2015, 7:00 am | 2 hr

When it’s time, join the meeting from here:

<https://meetings.webex.com/collabs/meetings/join?uuid=M2460NWQJOXZN4JWJY45NTG50S-4O2>

Meeting number: 194 030 720

 Audio Connection

[+1-415-655-0001](tel:%2B1-415-655-0001) US TOLL, Access code: 194 030 720

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**Initial General Draft agenda for the Telecons:**

1. Call to order, patent policy, attendance

2. Editor report

3. . Comment resolution: resolutions agreed, resolution discussed, update and bring back

**Sept 25:**

11-15-1018, 11-15-1019 - Stephen MCCANN CIDs 6759, 6760, 6763, 5395, 6355 (50 mins)  
11-15-1037 - Graham SMITH CIDs 5495, 6209, 6210, 6779, 5198 (25 mins)  
11-15-0762 - Mark RISON CIDs 6375, 6376, 6377 (10 mins)  
Mark HAMILTON CIDs (15 mins) see 11-15-0532-17 and 11-15-0565r18 –6813,  6784,  6658,  6118,  6119,  6131,  5161,  6090,  5257,  6084,  6301,  5398,  5060,  6060,  6407,  6503,  5034,  5032,  5033,  5414,  6453,  5095,  5421,  5422,  5423,  6499,  5110,  6429,  5079,  5080,  5131,  5137,  5957,  6448,  5076,  5542,  5566,  5571,  5573,  5584,  5585,  5590,  5596,  5620,  5621,  5622,  5625,  5628,  5631,  6062,  5100,  6063,  6064,  5700.

**Oct 2:**

Mark HAMILTON CIDs (60 mins) see 11-15-0532-17 and 11-15-0565r18 –6813,  6784,  6658,  6118,  6119,  6131,  5161,  6090,  5257,  6084,

11-15-0762 - Mark RISON (25 mins): CID 6480 and more  
11-15-1090 - Sigurd SCHELSTRAETE (25 mins)

**Oct 9:**

11-15-1010 - Adrian STEPHENS  
11-15-1180 - Emily QI

**Oct 14-16 Cambridge (teleconference will also be available):**

11-15-1183 - Neighbor Reports, Extended Capabilities and RM Enabled Capabilities - Ganesh VENKATESAN   
11-15-1010 - Adrian STEPHENS   
11-15-0762 - Mark RISON  
Additional CIDs as available

4. AOB

5. Adjourn

Note that teleconferences are subject to IEEE policies and procedures, see:

–        [IEEE Patent Policy](http://standards.ieee.org/board/pat/pat-slideset.ppt) –        [Patent FAQ](http://standards.ieee.org/board/pat/faq.pdf) –        [Letter of Assurance Form](http://standards.ieee.org/board/pat/loa.pdf)

–        [Affiliation FAQ](http://standards.ieee.org/faqs/affiliationFAQ.html) –        [Anti-Trust FAQ](http://standards.ieee.org/resources/antitrust-guidelines.pdf) –        [Ethics](http://www.ieee.org/portal/cms_docs/about/CoE_poster.pdf)

–        [802 LMSC P&P](http://standards.ieee.org/board/aud/LMSC.pdf) –        [802LMSC OM](http://grouper.ieee.org/groups/802/PNP/approved/IEEE_802_OM_v16.pdf)

1. **REVmc BRC Telecon Minutes 25 Sept 2015 10am ET**
   1. **Called to order** by Dorothy STANLEY at 10:05am
   2. **Reviewed Patent policy**
      1. No items identified
   3. **Attendance:** Dorothy STANLEY(HP-Aruba);, Graham SMITH (SR Technologies); Jon, ROSDAHL(CSR-Qualcomm); Mark Hamilton (Ruckus); Mark RISON (Samsung); Adrian STEPHENS (Intel); Stephen McCann (Blackberry);
   4. **Review Agenda**:

1. Call to order, patent policy, and attendance

2. Editor report

3. Comment resolution

**Sept 25:**  
11-15-1018, 11-15-1019 - Stephen McCann CIDs 6759, 6760, 6763, 5395, 6355 (25 mins)  
11-15-1037 - Graham SMITH CIDs 5495, 6209, 6210, 6779, 5198 (25 mins)  
11-15-0762 - Mark RISON CIDs 6375, 6376, 6377 (10 mins)  
Mark HAMILTON CIDs (45 mins) see 11-15-0532-17 and 11-15-0565r18 –6813,  6784,  6658,  6118,  6119,  6131,  5161,  6090,  5257,  6084,  6301,  5398,  5060,  6060,  6407,  6503,  5034,  5032,  5033,  5414,  6453,  5095,  5421,  5422,  5423,  6499,  5110,  6429,  5079,  5080,  5131,  5137,  5957,  6448,  5076,  5542,  5566,  5571,  5573,  5584,  5585,  5590,  5596,  5620,  5621,  5622,  5625,  5628,  5631,  6062,  5100,  6063,  6064,  5700.

**4.** AOB

**5.** Adjourn

* + 1. No objection to the proposed agenda
  1. **Editors Report**
     1. No Editors online, skip for now
  2. **Review 11-15/1018r2** Stephen MCCANN
     1. CID 6759 (GEN)
        1. Review Comment
        2. Review proposed change
        3. Proposed Resolution: REVISED (GEN: 2015-09-25 14:24:22Z): Incorporate the changes in 11-15/1018r3 for CID 6759
        4. No objection – Mark Ready for Motion
     2. CID 6760 (GEN)
        1. Review Comment
        2. Review Discussion
        3. Proposed Resolution: Reject. The format of the NAI Realm is clearly defined in clause 8.4.5.10 being either IETF RFC 4282 or UTF-8. Regarding “strings” it is not possible to state whether they are all NUL-terminated (sic) or not, as they have differing definitions within the document, e.g. the Language Code field (1066.48) may be a null terminated string, whereas the Certificate ID field (924.36) is not.
        4. Discussion on the encoding for ISO string definition
        5. Discussion on Certificate ID field possibly being encrypted.
        6. Discussion on Null character (abbreviated NUL) as a control character.
        7. ACTION ITEM #1: Stephen to check with Jouni and verify that UTF-8 Strings do not have issues with Null Terminated definition.
        8. Suggest removal of the Language Code field as it is not a string.
     3. CID 6763 (GEN)
        1. Review comment
        2. Review discussion
        3. Proposed Resolution: Revised: Please see clause 8.4.5.16 which states that the Emergency Alert URI field is formatted in accordance with IETF RFC 3986. This field name is used erroneously in clause 10.25.7 and is required to be changed.
        4. Review proposed change- Delete “Server” from the name Emergency Alert Serve
        5. Discussion on IEFT RFC 3986 – does it state case sensitivity? Do we need to specify more than what is in RFC?
        6. Discussion on do we need to add more definition
        7. ACTION ITEM #2: Mark RISON – to research the HTTP rule for case sensitivity.
  3. **Review 11-15/1019r0** Stephen MCCANN
     1. CID 5395 (MAC)
        1. Review comment
        2. Proposed Resolution: Reject. The use of the term ANQP-element has nothing to do with its “longer ID”. The commenter needs to explain the use of the term ‘longer’ in more detail. In other words, longer than what? Indeed this format is also used for RLQP in clause 8.4.5
        3. Discussion on the association of this element with an information element
        4. A Pointer to the new Extended Element definition addresses the comment more directly.
        5. Updated Proposed resolution in 11-15/1019r1: REJECTED (MAC: 2015-09-25 14:51:01Z): The use of the term ANQP-element has nothing to do with a "longer ID". See clause 8.4.2.1 for the definition of the Element ID Extension field.
        6. No objection – Mark ready for motion
     2. CID 6355 (MAC)
        1. Review Comment
        2. Proposed Resolution: Accept
        3. Discussion on the use of Access Category
        4. Would Mike MONTEMURRO or Brian HART have some input on this?
        5. Mapping in RFC 4594 includes CS2 and AF1 mappings and some suggestions.
        6. These may be only recommendations – more research will be needed.
        7. RFC 7561 - Mapping QoS procedures in Wireless LAN – maps AF11 to AC\_BE.
        8. RFC 4594 – maps AF11 to AC\_BE as well.
        9. Change AF1x for AC to AC\_Bk
        10. Which is consistent with RFC4594, but not necessarily definitive.
        11. Updated Resolution: REVISED (MAC: 2015-09-25 15:07:22Z): Change CS2 to User Priority 3, and change AF1x to Access Category value to AC\_BK
        12. No objection – Mark ready for motion
  4. **Review 11-15-1037r2** - Graham Smith CIDs 5495, 6209, 6210, 6779, 5198 (25 mins)
     1. CID 5198 (MAC)
        1. Open Action item for Graham to contact Commenter
        2. 7 criteria implies more than covered here
           1. Is the awake period covered by the 7 criteria? Confer with Commenter
        3. More review needed.
     2. CID 5495 (MAC)
        1. Review comment
        2. Review Discussion
        3. Proposed Resolution: REJECT; It is clear from the context that the ProbeDelay referred to is in the MLME-SCAN.request primitive in that the introduction to bullet says “Upon receipt of the MLME-SCAN.request primitive …”
        4. Discussion on how ProbeDelay is set and defined by different interests groups.
        5. Other comments similarly should be addressed.
           1. CID 5501, 5621 are similar comments
           2. The proposed resolution could be the same for these.
           3. CID 5501 was assigned to Emily QI, and 5621 was assigned to Mark HAMILTON
        6. Proceed with the rejection on this CID, and take the others later.
        7. No objection – Mark Ready for motion
     3. CID 6209 (MAC)
     4. Review comment
     5. Review Discussion
     6. Proposed Resolution: REVISED

At P 1540 L23

Replace

“f) If aPHY-CCA.indication (BUSY) primitive is received before the timer reaches MinChannelTime, wait until the timer reaches MaxChannelTime and then process all received probe responses; otherwise, when the timer reaches MinChannelTime, proceed to step f).

g) Set the NAV to 0 and scan the next channel.”

WITH

f) If a PHY-CCA.indication (BUSY) primitive is not received before the timer reaches MinChannelTime, proceed to step h).

g) Wait until the timer reaches MaxChannelTime and process all received probe responses.

h) Set the NAV to 0 and scan the next channel.”

* + 1. No Objection – Mark Ready for Motion
    2. CID 6210 (MAC)
       1. Review comment
       2. Review discussion
       3. Proposed Resolution: REJECT: A non-AP STA is capable of measuring the relative drift between the clocks and to be able to accurately measure TBTT relative to the AP clock. Even if the AP advertised its accuracy, the non-AP STA would still be better to actually measure the relative drift.
       4. Discussion on proposed resolution: none
       5. One objection –
       6. Discussion of an alternative
       7. Alternative Proposed Resolution: REJECTED (MAC: 2015-09-25 15:32:17Z): The comment fails to identify changes in sufficient detail so that the specific wording of the changes that will satisfy the commenter can be determined.
       8. No objection – Mark Ready for Motion
    3. CID 6779
       1. Not ready for today.
    4. End of time – will post R3
  1. **Review Document: 11-15-0762r9** - Mark Rison CIDs 6375, 6376, 6377 (10 mins)
     1. CID 6375 (MAC), 6376 (Editor), 6377 (MAC)
        1. Review proposed changes
        2. Note duplication to be removed.
        3. Remove the highlighted yellow questions for now, and maybe have question in subsequent letter ballot.
           1. Will move some of them to a discussion box, but will remove from text to avoid confusion for editors
        4. Proposed Resolution for 6375 and 6377: REVISED (MAC: 2015-09-25 15:45:58Z): Make the changes shown for the CIDs 6375, 6376, 6377 in 11-15/762r10.
        5. Proposed Resolution for 6376: Revised; Make the changes shown for the CIDs 6375, 6376, 6377 in 11-15/762r10.
        6. No objection – Mark all 3 CIDs Ready for Motion
  2. Review MAC CIDS – Mark Hamilton
     1. CID 5621(MAC)
        1. Review comment
        2. Similar to CID 6596
        3. In this case, a Start is needed not a Join
        4. Discussion on “N/A” – is it not applicable or could it be “not agreed”?
        5. Discussion on the need to say “the most recent” in the proposed change.
        6. Proposed resolution: REVISED (MAC: 2015-09-25 15:55:44Z): Replace "until a period of time equal to the ProbeDelay has transpired" with "until a period of time indicated by the ProbeDelay parameter from the most recent MLME-START.request primitive has transpired"
        7. No objection – Mark Ready for Motion
     2. At time – continue on next call
  3. Adjourned 12:02pm

1. **REVmc BRC Telecon Mintues 02 Oct 2015 10am ET**
   1. **Called to order** by Dorothy Stanley at 10:05am
   2. **Reviewed Patent policy**
      1. No issues identified
   3. **Attendance**: Dorothy STANLEY(HP-Aruba); Graham SMITH (SR Technologies); Jon ROSDAHL (CSR-Qualcomm); Mark Hamilton (Ruckus), Mark RISON (Samsung), Adrian STEPHENS (Intel), Jouni MALINEN (Qualcomm); Scott Marin (Self); Sigurd Schelstraete (Quantenna); Richard Fuller (OmniTrail Technologies); Emily Qi (Intel)
   4. **Review Agenda**: doc 11-15/1203r1

1. Call to order, patent policy, and attendance

2. Editor report

3. Comment resolution

Mark Hamilton CIDs (60 mins) 6813,  6784,  6658,  6118,  6119,  6131,  5161,  6090,  5257,  6084,  6301,  5398,  5060,  6060,  6407,  6503,  5034,  5032,  5033,  5414,  6453,  5095,  5421,  5422,  5423,  6499,  5110,  6429,  5079,  5080,  5131,  5137,  5957,  6448,  5076,  5542,  5566,  5571,  5573,  5584,  5585,  5590,  5596,  5620, 5622,  5625,  5628,  5631,  6062,  5100,  6063,  6064,

5700.  
11-15/0762r10 - Mark Rison (25 mins): CID 6480 and more  
11-15/1090r2 - Sigurd Schelstraete (25 mins)

4. AOB

5. Adjourn

* 1. **Editor Report**
     1. New Draft 4.3 nearly ready to post, expect to post next week
  2. **MAC CIDs** reviewed by Mark Hamilton
     1. CID 6813 (MAC)
        1. Review comment
        2. Concerns with the addition of “DATA” to the use of the Null or QOS Null frame.
        3. ACTION ITEM #3: Assign to Adrian as it is related to 6770
        4. Warning about NDP frames and the names in the draft.
     2. CID 6784 (MAC)
        1. Review Comment
        2. Proposed Resolution: REJECTED (MAC: 2015-10-02 14:19:47Z): Assuming the commenter is referencing P1926L4, all the other parallel concepts also include the "successful". Even if not necessary, the "successful"s seem fine and keep the bullet list consistent.
        3. One objection – but after another search agreed that it may have been in an older draft
        4. No objection – Mark Ready for Motion
     3. CID 6658 (MAC)
        1. Review Comment
        2. The cited locations were not correct, but the actual locations were identified and reviewed
        3. Changes were reviewed and adjusted during the discussion
        4. Proposed Resolution: REVISED (MAC: 2015-10-02 14:35:10Z):

Agreed, at 1571.10 Change "VHT Operating" to "VHT Operation"

Agreed, at 933.60 delete "carried within a frame"

Agreed, at 1843.64 and 1844.35 delete "in a frame"

At 1843.58, delete "in a frame"

At 1843.53, delete "in a Beacon frame or Probe Response frame"

* + - 1. No objection – Mark Ready for Motion
    1. CID 6118 (MAC)
       1. Review Comment
       2. Confusion of MMPDU vs MSDU or MPDU usage.
       3. Proposed Resolution: REJECTED (MAC: 2015-10-02 14:38:33Z): An MPDU can carry an MMPDU or be a control frame. Thus, the definition is correct.
       4. No objection – Mark Ready for Motion
    2. CID 6119 (MAC)
       1. Review Comment
       2. Same basic comment as 6118.
       3. Proposed Resolution: REJECTED (MAC: 2015-10-02 14:38:33Z): An MPDU can carry an MMPDU or be a control frame. Thus, the definition is correct.
       4. No objection – Mark Ready for Motion
    3. CID 6131 (MAC)
       1. Review comment
       2. Discussion on the need for the first sentence, and determined that the last sentence was a better first, so delete the first and make the last first.
       3. Modifications to the new first sentence to make it clear that there is one DS.
       4. Proposed Resolution: REVISED (MAC: 2015-10-02 14:48:34Z): Change

“The infrastructure includes the distribution system medium (DSM), access point (AP), and portal entities. It is also the logical location of distribution and integration service functions of an extended service set (ESS). An infrastructure contains one or more APs and zero or more portals in addition to the distribution system (DS).”

To

“An infrastructure comprises a distribution system (DS), one or more APs, zero or more portals, and zero or more mesh gates. It is also the logical location of distribution and integration service functions of an extended service set (ESS).”

* + - 1. No objection – Mark Ready for Motion
    1. CID 5161 (MAC)
       1. Review comment
       2. Proposed Resolution: Accept
       3. No objection – Mark Ready for Motion
    2. CID 6090 (MAC)
       1. Review comment
       2. Figure 4-14 – claims to be the “Complete” picture
       3. Need more work on the CID – mark submission required
    3. CID 5257 (MAC)
       1. Review Comment
       2. Change “most” to ”certain” in the proposal to change “might” to “most”
       3. Need to make the change in two locations as noted.
       4. Proposed Resolution: REVISED (MAC: 2015-10-02 14:55:42Z): Change the cited location to, "Regulations that apply to the 5 GHz band in certain regulatory domains require RLANs operating in the 5 GHz band to …" Same change at P105.51
       5. No objection – Mark Ready for Motion
    4. CID 6084 (MAC)
       1. Review comment
       2. Concern with the wording of the proposal – question on “Access control”
       3. What is the minimal change required was discussed and the proposed change was to do only that.
       4. Proposed Resolution: REVISED (MAC: 2015-10-02 15:01:00Z): Change

“For the purposes of this standard, CCMP and GCMP are viewed as logical services located within the MAC sublayer as shown in the reference model, Figure 4-19 (Portion of the ISO/IEC basic reference model covered in this standard) (in 4.9 (Reference model)). Actual implementations of CCMP and GCMP are transparent to the LLC and other layers above the MAC sublayer.”

To

“For the purposes of this standard, CCMP, GCMP and BIP are viewed as logical services located within the MAC sublayer as shown in the reference model, Figure 4-19 (Portion of the ISO/IEC basic reference model covered in this standard) (in 4.9 (Reference model)). Actual implementations of CCMP, GCMP and BIP are transparent to the LLC and other layers above the MAC sublayer.”

* + - 1. No objection – Mark Ready for Motion
  1. **Review doc:11-15/**0762r10 - Mark Rison (25 mins);
     1. CID 6482 (MAC)
        1. Review comment
        2. Discussion on if “at the antenna connector” was needed or not. – that is not needed in this CID – subject of another one (CID 6496).
        3. Proposed change: REVISED (MAC: 2015-10-02 15:15:41Z): Incorporate the changes as shown in 11-15/762r10 (<https://mentor.ieee.org/802.11/dcn/15/11-15-0762-10-000m-resolutions-for-some-comments-on-11mc-d4-0-sbmc1.docx> ) for CID 6482.
        4. No objection – Mark Ready for Motion
     2. CID 6479 (GEN)
        1. Review comment
        2. Review changes to included appropriate paranthens
        3. Proposed resolution: REVISED (GEN: 2015-10-02 15:19:34Z) At 2631.19 change “3 μs” to “As indicated by the coverage class (see 9.21.4)”.At 2631.6 change “24 μs (BCUs: 6 MHz or 7 MHz)” to “24 μs (BCUs: 6 MHz or 7 MHz) plus any coverage-class-dependent aAirPropagationTime (see Table 8-76)”.At 2631.7 change “20 μs (BCUs: 8 MHz)” to “20 μs (BCUs: 8 MHz) plus any coverage-class-dependent aAirPropagationTime (see Table 8-76)”.Change all 10 instances of “plus any coverage-class-dependent aAirPropagationTime Table 8-76” to add “(see” before “Table” and “)” at the end.
        4. No objection – Mark Ready for Motion
     3. CID 6480 (GEN)
        1. Review comment:
        2. Proposed resolution: REVISED (GEN: 2015-10-02 15:21:54Z) Delete the “<” in “< 100 ns” at the cited location.
        3. Mark ready for motion
     4. CID 6496 (MAC)
        1. Review comment
        2. Review changes proposed
        3. Discussion of “of” vs “x”
        4. Proposed Resolution: REVISED (MAC: 2015-10-02 15:26:29Z): Incorporate the changes as shown in 11-15/762r10 (https://mentor.ieee.org/802.11/dcn/15/11-15-0762-10-000m-resolutions-for-some-comments-on-11mc-d4-0-sbmc1.docx) for CID 6496.
        5. Mark Ready for Motion
     5. CID 6676 (GEN) and 6677 (GEN)
        1. Review Comments
        2. Review Discussion
        3. Review proposed changes
        4. Will leave for more review and an update later
  2. 11-15/1090r2 - Sigurd Schelstraete (25 mins)
     1. CIDs previously approved in R1 are not in R2.
     2. CID 5900 (MAC)
        1. Review comment
        2. Review discussion
        3. Proposed Resolution: REVISED (MAC: 2015-10-02 15:39:08Z):

1. Remove the lines 63-64 on Page 1424, per the comment.

2. Add the following text as a new paragraph at the end of subclause 9.32.3:

“An HT beamformee that transmits a feedback frame of type Compressed Beamforming in response to a sounding PPDU sent by an HT beamformer shall set the value of Nr in the MIMO Control field of the feedback frame to be the same value as the number of streams in the sounding PPDU.”

(Note that "Nr" is italicized)

* + - 1. No objection – mark ready for motion
    1. CID 5914 (GEN)
       1. Review comment
       2. More work to do – Still a work in progress
    2. CID 5916 (GEN)
       1. Review Comment
       2. Review proposed changes
       3. Proposed resolution: REVISED (GEN: 2015-10-02 15:50:45Z) Incorporate changes as shown in 11-15/1090r3 (https://mentor.ieee.org/802.11/dcn/15/11-15-1090-03-000m-miscellaneous-11mc-comment-resolutions.docx) for CID 5916.
       4. No objection mark ready for motion
    3. CID 5922 (GEN)
       1. Review comment
       2. Review proposed changes
       3. Proposed Resolution: Incorporate changes as shown in 11-15/1090r3 (https://mentor.ieee.org/802.11/dcn/15/11-15-1090-03-000m-miscellaneous-11mc-comment-resolutions.docx) for CID 5922. - adds references to Note 1 and updates the paragraph to clarify the fields used
       4. No objection – Mark ready for motion.
    4. CID 5932 (GEN)
       1. Review comment
       2. Review discussion
       3. Proposed resolution: ACCEPTED (GEN: 2015-10-02 15:59:45Z)
       4. No objection – Mark Ready for Motion
    5. At time – add to next week’s agenda for completing last 3 CIDs
  1. Adjourned 12:00pm

1. **REVmc BRC Telecon Minutes 9 Oct 2015 10am ET**
   1. **Called to order** by Dorothy Stanley at 10:05am
   2. **Reviewed Patent policy**
      1. No items identified
   3. **Attendance:** Dorothy STANLEY(HP-Aruba); Jon, ROSDAHL(CSR-Qualcomm); Emily Qi (Intel); Adrian STEPHENS (Intel); Jouni MALINEN (Qualcomm); Mark Hamilton (Ruckus); Sigurd Schelstraete (Quantenna); Mark RISON (Samsung); Graham SMITH (SR Technologies);
   4. **Review Agenda**:

1. Call to order, patent policy, and attendance

2. Editor report

3. Comment resolution

**Oct 9:**

11-15-1090 – Sigurd Schelstraete (10 mins): 5934, 5935, 5936, schedule time to consider resolutions for remaining assigned CIDs: 5914, 5940, 5880, 5879, 5896  
11-15-1010 - Adrian Stephens (50 mins)  
11-15-1180 - Emily Qi (50 mins)

**4.** AOB

**5.** Adjourn

* + 1. No objection to the proposed agenda
  1. **Editors Report**
     1. We have posted 4.3 in the member’s area – thanks for those that helped make it possible.
  2. Review doc: 11-15/1090r3 – Sigurd SCHELSTRAETE
     1. CID 5934 (GEN)
        1. Review Comment
        2. Proposed resolution: ACCEPTED (GEN: 2015-10-09 14:08:26Z)
        3. No objection – Mark Ready for Motion
     2. CID 5935 (GEN)
        1. Review comment
        2. Proposed Resolution: ACCEPTED (GEN: 2015-10-09 14:10:34Z)
        3. No objection – Mark Ready for Motion
     3. CID 5936 (GEN)
        1. Review Comment
        2. Proposed Resolution: ACCEPTED (GEN: 2015-10-09 14:11:33Z)
        3. No objection – Mark Ready for Motion
     4. Review remaining CIDs assigned to Sigurd
        1. remaining assigned CIDs: 5914, 5940, 5880, 5879, 5896
  3. Review Doc 11-15/1010r13 – Adrian STEPHENS
     1. CID 6455 (EDITOR) and 6456 (GEN)
        1. Review comment
        2. Was rejected before, but now we have reconsidered and will make a change.
        3. Review proposed changes.
        4. Proposed resolution (6455 and 6456): Revised; Make changes under CID 6456 in 11-15/1010r13 < https://mentor.ieee.org/802.11/dcn/15/11-15-1010-13-000m-revmc-sb0-stephens-resolutions-part-2.doc> These changes revise the use of “monotonically” throughout the standard as necessary according to its interpretation as a change in a consistent direction, or no change.
        5. No objection – Mark Ready for Motion
     2. CID 6332 (MAC)
        1. Review comment
        2. The text in this proposal did not match the agreed language, but the minutes of the Bangkok session are not posted yet.
        3. Review CID 6334, and 6333 resolutions
        4. Need to add reference to the adhoc notes
        5. Assign to Jouni Malinen. Add to Ad Hoc notes: See CIDs 6333, 6334CID
     3. CID 6226 (MAC)
        1. Review comment
        2. Need to get Matthew FISCHER’s update and reconcile with that.
        3. ACTION ITEM #4: Adrian to check with Matthew FISCHER
     4. CID 5070 (MAC)
        1. Also dependent on 6226
     5. CID 6254 (MAC)
        1. Review comment
        2. Proposed Resolution: Revised. At cited location, change “In a Beacon report or , the Antenna ID … the reported beacon or frame.” to “In a Beacon report the Antenna ID … the reported beacon.”.
        3. Discuss the history of why the change is correct.
        4. Discussion on why the sentence was needed.
        5. Updated Proposed Resolution: REVISED (MAC: 2015-10-09 14:35:07Z): Delete cited sentence.
        6. No objection – Mark Ready for Motion
     6. CID 5041 (MAC)
        1. Review the Comment
        2. Review the proposed Change
        3. Proposed Resolution: REVISED (MAC: 2015-10-09 14:36:43Z): Globally change "DSE Registered Location Element Body" to "DSE Registered Location Information"
        4. No objection – Mark Ready for Motion
     7. CID 5071 (MAC)
        1. Review the Comment
        2. Proposed Resolution: REVISED (MAC: 2015-10-09 14:38:22Z): Replace cited sentence with: "Otherwise this subfield is set to 0 or 3 upon transmission, and is ignored upon reception." (Note to editor, this is the same as the resolution to CID 6651)
        3. No objection – Mark Ready for Motion
     8. CID 6413 (MAC)
        1. Review the comment
        2. Discussion on the center frequency or index
        3. Review the proposed changes, updating the changes during the discussion.
        4. Proposed Resolution: REVISED (MAC: 2015-10-09 14:39:07Z): Make changes under CID 6413 in 11-15/1010r14 (https://mentor.ieee.org/802.11/dcn/15/11-15-1010-14-000m-revmc-sb0-stephens-resolutions-part-2.doc). These clarify that the frequency segment is that containing the primary 20MHz.
        5. No objection – Mark Ready for Motion
     9. CID 6415 (MAC)
        1. Review Comment
        2. This is similar to CID 6413
        3. Need to rework the resolution to match those made in 6413.
        4. Update later revision
     10. CID 6414 (MAC)
         1. Review comment
         2. Review proposed change
         3. Proposed Resolution: REVISED (MAC: 2015-10-09 14:49:22Z): Replace sentence at 917.29 "The Operating Class field contains an enumerated ... as well as the frequency band in which the Channel Number is valid." With

"The Operating Class field contains an enumerated value from Annex E that identifies

* + - 1. No objection – Mark Ready for Motion
    1. CID 6532 (MAC)
       1. Review comment
       2. Review proposed changes
       3. See context p944 to confirm the proposed changes
       4. Proposed Resolution: REVISED (MAC: 2015-10-09 14:50:41Z): At 938.13 delete "one or more Request Subelements"

At 938.17 change "Request sublements" to "FMS Request Subelements"

In 8.4.2.75 change "Request [s|S]ubelement" to "FMS Request [s|S]ubelement", preserving the case of the 'S'.

* + - 1. No objection – Mark Ready for Motion
    1. CID 6533: (MAC)
       1. Review Comment
       2. Review proposed changes in context
       3. Discussion on the confusion of page 940 line 23, and why it was deleted.
       4. Confirmation of locations for change and non-changes was reviewed.
       5. Proposed Resolution: REVISED (MAC: 2015-10-09 14:54:42Z): At 939.48 delete "one or more Status Subelements"

At 940.24 delete "The FMS Status Subelements field contains one or more FMS Status subelements."

In 8.4.2.76 change "Status [s|S]ublement" to "FMS Response [s|S]ublement",

* + - 1. No objection – Mark Ready for Motion
    1. CID 6202 (MAC)
       1. Review Comment
       2. Proposed resolution: ACCEPTED (MAC: 2015-10-09 15:02:45Z)
       3. No objection – Mark Ready for Motion
    2. CID 6098 (MAC) and 5061 (MAC)
       1. Review Comment
       2. Proposed resolution CID 6098 and 5061: ACCEPTED (MAC: 2015-10-09 15:04:23Z)
       3. No objection – Mark Ready for Motion
    3. CID 5972
       1. Assigned to Peter E.
       2. Delete from doc 11-15/1010
    4. CID 6042 (MAC)
       1. Review comment
       2. Review context – duplicate text
       3. Was also in 11-15/1004r5 (8-20)
       4. Need more checking to see it was already done.
    5. ACTION ITEM #5: Jon to Check if 11-15/1004r5 was approved in Aug telecom and review all CIDs to ensure included as minuted?
       1. From Dorothy’s research during the call:

Regarding CID 6042 - it was discussed 2-15-08-14, see doc:11-15-1009:

4.j CID 6042

i. Discussion1. C: Prefer “the” to “this”2. C: Cited text duplicates text at 978 lines-411.3. C: Prefer to delete last 3 sentences of 979.014. C: Prefer to delete last 4 sentences of 979.01ii. Proposed Resolution:1. Revised, make changes in R3 of <cited doc> under CID 6042iii. There was no objection to mark this comment ready for motion.

* + - 1. {Post Meeting - Secretary Research:}
         1. List of CIDs in doc:11-15-1009r2 – minutes of 2015-08-14:

Editors Report:

6836 (RFM), 6097(M125), 5959(M138), 5184(M135), 5063(M131), 5010(M151)

doc: 11-15/1004 – Graham Smith

CID 5096 6099 (MAC) – **Not updated in Database**

*Resolution (to both comments):*

*Revised, make changes in R3 of <cited doc> under CID 5096*

CID 5097 (MAC) – **Not updated in Database**

*Resolution: Revised, make changes in R3 of <cited doc> under CID 5097*

CID 5098 (MAC) – **Not updated in Database**

*Resolution: Revised, make changes in R3 of <cited doc> under CID 5098*

CID 6100 (MAC) – **Not updated in Database**

*Resolution: Revised, make changes in R3 of <cited doc> under CID 5097 and 5098*

CID 5171 (M152)

CID 5226 (GEN) – Open Action item:

*Action: Dorothy to ask Dan to think about this.*

CID 5227 (M150)

CID 6031 (M152)

CID 6042 (MAC) – **Not updated in Database**

*Resolution: Revised, make changes in R3 of <cited doc> under CID 6042*

Doc 11-15/762r5 – Mark RISON

CID 6842 (MAC)

Note: 2015-10-02 updated resolution – ready for motion

CID 6480 (GEN)

Note 2015-10-02 updated resolution – ready for motion

CID 6496 (MAC)

Note: 2015-10-02 updated resolution – ready for motion

CID 6506 (GEN)

This CID was originally ready for motion during the May Interim, but was pulled from the motion.

During the August Telecon, it was discussed, but no resolution was determined.

* 1. Review doc 11-15/1180r2 - Emily QI
     1. Review history of changes
     2. CID 5212 (MAC)
        1. Review Comment
        2. Review discussion
        3. Review proposed changes
        4. Discussion on not removing the sentence, but keeping it in 9.22.4.2.2 but revising the sentence.
        5. Proposed Resolution: Revised (see 11-15/1180r3)
        6. No objection – Mark Ready for Motion
     3. CID 5214 (MAC)
        1. Review comment
        2. Review discussion
        3. Question on usefulness of changes or the paragraph itself
        4. Discussion on difference of capability or mechanism.
        5. Proposed resolution: REVISED (MAC: 2015-10-09 15:26:22Z): At the end of cited paragraph, add "The times at which an AP may transmit during an unscheduled SP might be constrained by the U-APSD coexistence mechanism (see 10.2.2.5.2)."
        6. No objection – Mark Ready for Motion
     4. CID 5218 (MAC)
        1. Review comment
        2. Review Discussion
        3. Disagreement to remove the “also”, so update proposed change by adding “additional procedures in”
        4. Proposed resolution: REVISED (MAC: 2015-10-09 15:34:32Z): At the end of cited clause 10.2.2.10, add a paragraph/sentence: "For receive operation using the U-APSD coexistence mechanism, see additional procedures in 10.2.2.5.2."
        5. No objection – Mark Ready for Motion
     5. CID 5216 (MAC)
        1. Review comment
        2. Review proposed changes
        3. Discussion on if the paragraph is correct or not.
        4. Discussion on “may” vs “might” or alternative normative changes.
        5. Straw Poll:
           1. Accept or Reject the comment
           2. Accept: 2 Reject 5
        6. Proposed Resolution: REJECTED (MAC: 2015-10-09 15:46:06Z): This sentence applies to the aging function. The previous sentence is much broader. This is not a duplication.
        7. No objection – Mark Ready for Motion
     6. CID 5217 (MAC)
        1. Review comment
        2. Review discussion
        3. Discussion on what reference should be in the reference.
        4. Proposed resolution: REJECTED (MAC: 2015-10-09 15:49:25Z): The deprecation is already acknowledged in 8.4.2.56 and 10.1.3.2.
        5. No objection – Mark Ready for Motion
     7. CID 5219 (MAC)
        1. Review Comment
        2. Review Discussion
        3. Proposed resolution: REJECTED (MAC: 2015-10-09 15:51:36Z): Reject. The comment fails to identify a specific issue to be addressed. It fails to identify changes in sufficient detail so that the specific wording of the changes that will satisfy the commenter can be determined.
        4. No objection – Mark Ready for Motion
     8. CID 5220 (MAC)
        1. Review Comment
        2. Review discussion
        3. Question on the title of the first column in table 10-4
        4. Proposed resolution: ACCEPTED (MAC: 2015-10-09 15:53:20Z)
        5. No objection – Mark Ready for Motion
     9. CID 5221 (MAC)
        1. Review Comment
        2. Discussion on past discussion. Solomon has offered to draw the new diagram
        3. Assign to Solomon TRAININ
  2. Next Meeting in Cambridge UK
     1. Samsung is hosting
     2. Meeting notice was sent out already –
        1. **Tentative planning for October Cambridge and November meetings:**
        2. **Oct 14-16 Cambridge (teleconference will also be available):** 
           1. **Oct 14 AM1:**

11-15-1010 - Adrian STEPHENS (110 mins)

* + - * 1. **Oct 14 PM1 :**

11-15-1155 - Resolutions for the CCA zoo in 11mc/D4.0 (SBmc1) – Mark RISON   
11-15-0762 - Mark RISON (110 mins)

* + - * 1. **Oct 14 PM2:**

11-15-1037 - Graham SMITH CIDs 6779, 5198 (15 mins)   
11-15-1201 - Resolutions for TPC Comments on 11mc D4 – Graham Smith (110 mins)

* + - * 1. **Oct 15 AM1:**

11-15-1018, 11-15-1019 - Stephen MCCANN CIDs 6760, 6763, plus additional assigned comments, 11-15-1199 – MAC Operation CIDs – Dorothy STANLEY

* + - * 1. **Oct 15 PM1:**

11-15-1010 - Adrian STEPHENS (110 mins)

* + - * 1. **Oct 15 PM2:**11-15-tbd – Mike MONTEMURO assigned comments (90 mins)  
           11-15-1183 - Neighbor Reports, Extended Capabilities and RM Enabled Capabilities - Ganesh VENKATESAN (15 mins),
        2. **Oct 16 AM1:**

11-15-0762 - Mark RISON (110 mins)

* + - * 1. **Oct 16 PM1:**

*TBD*

* + - * 1. **Oct 16 PM2: Motions**
    1. RSVP due to Mark RISON. –
       1. Name/company/country arriving from/citizenship/dietary needs
    2. Agenda to be updated,
    3. Join.Me Bridge to be used by those not in Cambridge.
  1. Adjourn 12:01pm



**References:**

Sept 25:

<https://mentor.ieee.org/802.11/dcn/15/11-15-1203-00-000m-2015-09-10-tgmc-brc-teleconference-agenda.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1018-02-000m-some-gen-comment-resolutions.doc>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1019-00-000m-some-mac-comment-resolutions.doc>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1019-01-000m-some-mac-comment-resolutions.doc>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1037-02-000m-resolutions-for-more-assigned-comments-gs.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1037-03-000m-resolutions-for-more-assigned-comments-gs.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-0762-09-000m-resolutions-for-some-comments-on-11mc-d4-0-sbmc1.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-0762-10-000m-resolutions-for-some-comments-on-11mc-d4-0-sbmc1.docx>

Oct 2:

<https://mentor.ieee.org/802.11/dcn/15/11-15-1203-01-000m-2015-09-10-tgmc-brc-teleconference-agenda.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-0762-10-000m-resolutions-for-some-comments-on-11mc-d4-0-sbmc1.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1090-02-000m-miscellaneous-11mc-comment-resolutions.docx>

<https://mentor.ieee.org/802.11/dcn/15/11-15-1090-03-000m-miscellaneous-11mc-comment-resolutions.docx>

Oct 9:

<https://mentor.ieee.org/802.11/dcn/15/11-15-1203-02-000m-2015-09-10-tgmc-brc-teleconference-agenda.docx>

https://mentor.ieee.org/802.11/dcn/15/11-15-1090-03-000m-miscellaneous-11mc-comment-resolutions.docx

https://mentor.ieee.org/802.11/dcn/15/11-15-1010-13-000m-revmc-sb0-stephens-resolutions-part-2.doc

<https://mentor.ieee.org/802.11/dcn/15/11-15-1180-02-000m-sb0-resolutions-for-ps-comments.docx>