IEEE P802.11  
Wireless LANs

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| REVmc BRC Telecon Minutes – Feb 2016 | | | | |
| Date: 2016--02-05 | | | | |
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Abstract

Minutes for the 802.11 REVmc BRC Telcons for February 5th and 19th, 2016

Draft agenda:

1. Call to order, attendance, and patent policy

2. Editor report

3. Comment resolution

4. AOB

5. Adjourn

Note that BRC meetings and 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)

Every 2 weeks on Friday, from Fri, Feb 5, 2016 to Fri, Feb 19, 2016, 7:00 am | 2 hr (updated)

San Francisco (Pacific Standard Time, GMT-08:00)

Host: Dorothy Stanley

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

<https://meetings.webex.com/collabs/meetings/join?uuid=M2HOO8S0N7IAGCYZMVVGJFD8IA-4O2>

Meeting number: 194 302 142

Audio Connection

[+1-415-655-0001](tel:%2B1-415-655-0001) US TOLL

Access code: 194 302 142

1. 802.11 REVmc BRC Telecon: 05 February 2016
   1. **Call to order** by Dorothy STANLEY, Chair, at 10:04am
   2. **Attendance:** Dorothy STANLEY (HPE); Adrian STEHPENS (Intel); Jon ROSDAHL (Qualcomm); Alecsander EITAN (Qualcomm); Assaf KASHER (Intel), Chris HANSEN (Peraso Technologies); Edward AU (Huawei), Emily QI (Intel), Graham SMITH (SR Technologies); Jinjing JIANG (Marvel); Lisa WARD (Rohde & Schwarz); Mark HAMILTON (Ruckus Wireless); Mark RISON (Samsung); Osama ABOULMAGD (Huawei); Payam TORAB (Broadcom); Sigurd SCHELSTRAETE (Quantenna); Carlos CORDEIRO (Intel);
   3. **Patent Policy Review**
      1. No items reported
   4. **Review Agenda**
2. Call to order,
3. Attendance
4. Patent Policy Review
5. Agenda Review
6. Editor report
7. Comment resolution:
8. https://mentor.ieee.org/802.11/dcn/16/11-16-0220-01-000m-clause-20-extended-mcs-set.docx - Assaf KASHER
9. https://mentor.ieee.org/802.11/dcn/16/11-16-0221-00-000m-resolution-for-cid-7086-dcf.docx - Graham SMITH
10. https://mentor.ieee.org/802.11/dcn/16/11-16-0228-00-000m-resolution-for-cids-7087-7088-edca.docx - Graham SMITH
11. https://mentor.ieee.org/802.11/dcn/16/11-16-0237-01-000m-resolutions-for-cids-assigned-to-graham-d5.docx - Graham SMITH
12. AOB
13. Adjourn
    * 1. No objection to the proposed agenda
    1. **Editor report** 11-13/95r27 – Adrian STEPHENS (Intel)
       1. Slide 5 needs to be updated – stale data - ignore
       2. Slide 6: 828 new comments
       3. First pass has been done and assigned some comments
       4. Slide 7: Review Editorial assigned status
          1. Note that comments will be assigned to commenter by default that need submission, if a submission is not done in a timely manner, the comment will be rejected for lack of information.
       5. **Action item #1:** Adrian to send list of Submission required that is currently noted out to the reflector.
       6. Request to be noted: Adrian had to leave the call at this point. (10:20am ET)
    2. **Comment resolution**
       1. Review Document 11-16/220r1 -- Assaf KASHER (Intel),
          1. https://mentor.ieee.org/802.11/dcn/16/11-16-0220-01-000m-clause-20-extended-mcs-set.docx
          2. Review the document
          3. Questions and discussion
          4. Concern on the scope of the changes presented today.
          5. Suggest TGay may be better place to review and consider
          6. Question on if this submission addresses a specific comment.
             1. There is a comment 7142 (GEN)– about missing MCS
             2. The comment is valid, technical discussion is being allowed
          7. The determination of where this technical change should be discussed is debatable, the timeline of TGay is too late in usefulness in 2020 products.
          8. The constellations proposed are
          9. Assertion that the TGay should be the location for this discussion and review, the level and scope of this change being brought to a conference call between face-to-face sessions seems to be inappropriate.
             1. Is there a way to send to TGay for a broader technical discussion?
             2. If we discuss it here, a more widely announced topic should be made.
          10. Note that Comments that come in on the ballot are processed as submissions are brought forward.
              1. Comments are process and the topics are announced in the telecom announcements for the agendas in a timely manner.
          11. There are several editorial comments that need to be addressed, but they can be addressed offline.
          12. Is the proposal deprecating OFDM?
              1. Current products are not seen as using the OFDM in the 60Ghz band.
              2. Should we just mark it deprecated?

Maybe, but that would be a separate discussion

* + - 1. Support for presentation
         1. We have a need for legacy support
         2. This submission prevents changing the header to allow legacy support
         3. Yes this will cause a minor PHY change on a reserved bit use.
      2. Support for presentation
         1. This is a small change, and many simulations have been done to vet the change.
         2. Limited change – extension of the signal carrier only. Not a major change in 11ad.
      3. Another comment7138 (GEN) was also added in the recirc, and these also are pile-on comments from the original comments that were not addressed in the first ballot. (CID 7136 is related, but it says to deprecate OFDM mode, which this submission does not address, other than in the introductory narrative.)
    1. Review Document 11-16/221r1 – Graham SMITH (SR Technologies)
       1. https://mentor.ieee.org/802.11/dcn/16/11-16-0221-00-000m-resolution-for-cid-7086-dcf.docx
       2. CID 7086 (MAC)
          1. Review comment
          2. Review document
          3. Proposed Resolution: REVISED (MAC: 2016-02-05 16:07:57Z): Incorporate the text changes in 11-16/221r0 (https://mentor.ieee.org/802.11/dcn/16/11-16-0221-00-000m-resolution-for-cid-7086-dcf.docx). This deletes the cited sentence, and clarifies DIFS and EIFS behavior.
          4. Question on “if the immediately preceding..” event change

If idle for DIFS it does not matter, if you are doing EIFS, then this captures that case

* + - * 1. No objection – Mark Ready for Motion
    1. Review Document 11-16/228r0 Graham SMITH (SR Technologies)
       1. https://mentor.ieee.org/802.11/dcn/16/11-16-0228-00-000m-resolution-for-cids-7087-7088-edca.docx
       2. CIDs 7087(MAC) and 7088(MAC): 11-16/0228r0
       3. Review document
       4. Review comment and proposed change
       5. Questions and Discussion:
          1. Trying to fix this section is laudable, but concern on making sure to get any change correct.
          2. Where are we doing the decrement for each free medium for each slot time?

The implication is that it just decrements unless busy….no need to explicitly say decrement on the slot time boundaries.

If the time is counting down, and the slot goes busy, do you go back to 0 or continue where you were?

It is not time, but rather slot counts.

Backoff timer may be a poor choice of name, as it is really slots, and you cannot have a portion of a slot.

The idea is to get a converged consensus on where the slot boundaries are defined.

May need more thought offline to define this.

* + - * 1. The Rx/TXTurnaround is used once per sequence, but the concern was if it was being done for each condition.

The argument is that this is added at the end just prior to the transmission.

As the timers are really counting slots, and the aRXTXTurnaroundTime is a bit of time, and so you are not getting a full slot, but rather to help get into the right slot time.

* + - * 1. The events a-e describe interesting events, and then event f is the last event.

The draft describes how the aRxTxTurnaroundtime is used, and this change will need more work.

* + - 1. Suggestion to look at the comments and update for later discussion
    1. Review Document 11-16/237r1 -- Graham SMITH (SR Technologies)
       1. https://mentor.ieee.org/802.11/dcn/16/11-16-0237-01-000m-resolutions-for-cids-assigned-to-graham-d5.docx
       2. CID 7275(MAC): 11-16/237r1
          1. Review document
          2. Comments – discussion

Is the Non-HT STAs rules also applies to DMG STAs?

DMG can only talk to DMG as it is a different frequency.

As the DMG is non-HT STA, then it follows the Block Ack Policy?

No it is more complex, we need to check this case for the DMG

DMG STAs need to be included in the case of the rules it is following

* + - * 1. ACTION ITEM #2: Graham to check with DMG folks to see if change/clarification is needed.
        2. Proposed Resolution: CID 7275: REVISED (MAC: 2016-02-05 16:48:09Z): Incorporate the changes under CID 7275 in 11-16/237r1 (https://mentor.ieee.org/802.11/dcn/16/11-16-0237-01-000m-resolutions-for-cids-assigned-to-graham-d5.docx). This rewords the cited text to clarify the advisory behavior.
        3. No objection – Mark Ready for Motion
      1. CID 7272 (GEN) 11-16/237r1
         1. Review comment
         2. Review proposed resolution
         3. Proposed Resolution: CID 7272 REVISE At P40.40, insert “power save (PS) station (STA): A station that is in power save mode.”:
         4. No objection Mark Ready for Motion
      2. CID 7293 (MAC): 11-16/237r2
         1. Review Comment
         2. Proposed Resolution: ACCEPTED (MAC: 2016-02-05 16:57:48Z)
         3. No objection – Mark Ready for Motion
      3. CID 7360 (GEN): 11-16/237r2
         1. Review Comment
         2. Proposed Resolution: Revised; Incorporate the changes under CID 7360 in 11-16/237r2 (https://mentor.ieee.org/802.11/dcn/16/11-16-0237-02-000m-resolutions-for-cids-assigned-to-graham-d5.docx). This adds an exception for DMG use of RIFS.
         3. No objection – Mark Ready for Motion
      4. CID 7361 (MAC): 11-16/237r2
         1. Review Comment
         2. Proposed Resolution: CID 7361 (MAC): REVISED (MAC: 2016-02-05 17:02:17Z): Incorporate the text changes as shown in 11-16/0237r2 (https://mentor.ieee.org/802.11/dcn/16/11-16-0237-02-000m-resolutions-for-cids-assigned-to-graham-d5.docx). This adds an exception for DMG use of RIFS.
         3. No objection – Mark Ready for Motion
  1. **AOB** – out of time
  2. **Adjourn** at 12:02pm

**References:**

February 5, 2016:

<https://mentor.ieee.org/802.11/dcn/16/11-16-0220-01-000m-clause-20-extended-mcs-set.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0221-00-000m-resolution-for-cid-7086-dcf.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0228-00-000m-resolution-for-cids-7087-7088-edca.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0237-01-000m-resolutions-for-cids-assigned-to-graham-d5.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-0237-02-000m-resolutions-for-cids-assigned-to-graham-d5.docx>