IEEE P802.11  
Wireless LANs

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| TGmc Telecom Minutes October 2014 | | | | |
| Date: 2014-10-03 | | | | |
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Abstract

As approved during the September Interim meeting, TGmc teleconferences are   
scheduled for October 3, 24 and 31. We will be continuing comment resolution.

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R0: October 3 Friday 10am Eastern/7am Pacific –

R1: Oct 24, Friday 10am ET.7am PT

a) CID 3019 - 11-14-1345- Adrian STEPHENS

b) CID 3119 in 11-14-0923 - Mike MONTEMURRO

c) CIDs CIDs 3313, 3314, 3493, 3141, 3281, 3282, 3334, 3346, 3353, 3394, in  11-14-1041-04-000 – Dorothy STANLEY

d) CIDs in 11-14-1104 - Mark RISON - technical comments (min 1 hour)

Next call: October 31:

a) Status of CID 3152 if available - Menzo WENTINK, Sean COFFEY

b) Jon ROSDAHL CIDs:

CID 3438 - Security Tab  
CID 3372 - Terminology Tab  
CID 3463 - Terminology Tab  
CID 3528 - Definitions Tab  
CID 3561 - Definitions Tab

CID 3352 - Protection mechanisms (not yet in the file, but hope to next week or so.

5 of the 6 CIDs proposed resolutions are now posted in 11-14/975r6:  
<https://mentor.ieee.org/802.11/dcn/14/11-14-0975-06-000m-lb202-gen-adhoc-comments.xlsx>

(c) CIDs in 11-14-1104 - Mark RISON, continued - (min 1 hour)

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) –        [802 LMSC OM](http://grouper.ieee.org/groups/802/PNP/approved/IEEE_802_OM_v13.pdf) –        [802 WG P&P](http://grouper.ieee.org/groups/802/PNP/approved/IEEE_802_WG_PandP_v15.pdf)

–        [IEEE802.11 WG OM](https://mentor.ieee.org/802.11/dcn/14/11-14-0629-02-0000-802-11-operations-manual.docx)

1. **Minutes for 802.11 TG REVmc on 3 October 2014 10:00-12:00**
   1. **Called to order** by Dorothy STANLEY (Aruba) at 10:02am
   2. **Review Patent Policy** – No issues noted
   3. **Review Agenda:**

Draft agenda:  
1. Call to order, patent policy, attendance  
2. Editor report  
3. Comment resolution: Available resolutions and presenters from:

11-14-0923 - Mike MONTEMURRO

11-14-1173 - Gabor BAJKO - deferred

11-14-1041 - Dorothy STANLEY

11-14-1104 - Mark RISON

Remaining Editorial CIDs

4. AOB  
5. Adjourn

* 1. **Adjustments to Agenda**: -
     1. Add to Editor Report discussion on Extended Element IDs
     2. Agenda approved without objection
  2. **Attendance**: Adrian STEPHENS (Intel); Dorothy STANLEY (Aruba); Jon ROSDAHL (CSR); Michael MONTEMURRO (Blackberry); Scott MARIN (Nokia Networks); Carlos Aldana (Qualcomm); Mark RISON (Samsung); Jouni MALINEN (Qualcomm)(no Audio); Sean COFFEY (Realteak)(No Audio);
  3. **Editor Report –** Adrian STEPHENS (Intel)
     1. Work ongoing, but nothing to report
     2. Element IDs – ANA hat
        1. Note sent to the reflector with Strawman – need feedback.
        2. TGai has requested to allocate 14 of the last 20
        3. Request to discuss allocation during face to face in Nov.
        4. Need escape/expansion of element ID number space.
        5. Strawman: Option A or Option B – are they independent or alternatives that can be done together?
           1. Could do both – Option A would go into Beacons, and Option B would be everything else
           2. An alternate option would allow for mixing 16 and 8 bit lengths, but that may be over complicated.
        6. Would like more discussion – Dorothy Schedule time at Face to Face at November Plenary Session.
  4. **Review 11-14-0923** - Mike MONTEMURRO (Blackberry)
     1. 11-14/093r6 – will capture today’s comments and be posted after the call.
     2. CID 3504 MAC
        1. Review comment
        2. Proposed Resolution: incorporate the changes in 11-14/0923r6 for CID 3504.
        3. No objection mark ready for motion
     3. CID 3119 MAC
        1. Review Comment
        2. From submission discussion

“Mark Rison’s comment “For 3319, I think that for consistency with the row above it should be

"Power save mode or PS".  However I've spotted a wrinkle, which is that "active mode" is defined at 24.34 only as a mesh power mode...

Note also that the capitalization of "Active mode" is inconsistent”

* + - 1. Concern with “Shall” statements in the table. Should this be moved to regular text location or see if these are duplicates of Shall statements elsewhere in the draft. Typically we want to reduce the table text and not cause contradiction elsewhere.
      2. Suggestion to change the text in the table to be more descriptive.
      3. There are lots of PowerSave modes and we need to ensure that we reference the specific power save clauses rather than trying to restate it here.
      4. Action Item: Mike will go rework this CID and look for comment from others to assist.
    1. CID 3120 MAC
       1. Review Comment
       2. From discussion

“Mark Rison’s comment “For 3120, there is a difference between bufferable MMPDUs and buffered MMPDUs, I think.  The NOTE might be better with "bufferable" changed to "buffered", with the second sentence deleted.  But where actually is the normative statement of the use of AC\_VO for buffered MMPDUs?  Should this not be a NOTE at all (i.e. should it be normative)?”

* + - 1. Question on the rational for the proposed reject –
      2. Difference from “bufferable” vs “buffered” MMPDUs
      3. In unicast case there does not seem to be a difference in how the AC is used.
      4. More discussion
      5. The note as stated is not correct – MMPDU may be via 11ae using other accesses categories.
      6. Removing the informative note does not change the draft standard.
      7. Proposed Resolution: Accept
      8. No objection – mark ready for motion
      9. Mark RISON asked to be an Abstain
    1. CID 3018 MAC
       1. Review comment
       2. Proposed Resolution: Revised: Change “ Mesh STAs should adopt the mandatory PHY rates as the default BSSBasicRateSet to reduce the risk that a candidate peer mesh STA utilizes a different BSSBasicRateSet.” To “ The SME of a Mesh STAs should use the mandatory PHY rates as the default BSSBasicRateSet in the MLME-START.request primitive to reduce the risk that a candidate peer mesh STA utilizes a different BSSBasicRateSet.”
       3. No objection - Mark ready for motion
    2. CID 3019 MAC
       1. Review Comment
       2. Discussion on CID 2010 got rid of HT version, but we need to revisit for the VHT set. This CID only removes the BSSBasicMCSSet at this one cited location. Reference to 11-14/207r3 for the HT removal.
       3. Action Item: Adrian to check the VHT-MCS changes that may need to be done as well.
       4. Proposed Resolution: Accept
       5. No objection – Mark ready for motion
    3. CID 3042 MAC
       1. Review comment
       2. Agree that description of over the air material, but the parameter set is the question.
       3. Discussion on how a station would know the peer values in the paring process
       4. Discussion on what is actually passed from peer to peer.
       5. Update the proposed resolution in the submission for two new locations as well.
       6. Discussion on needing hyphens in the correct locations.
       7. Proposed Resolution: Incorporate the changes in 11-14/0923r6 for CID 3042.
       8. No objection mark ready for motion
    4. CID 3142 MAC
       1. Review comment
       2. Question on why table 9-17 is in clause 9 and not in clause 8 –
          1. Good question, but not subject of this CID.
       3. Why refer to the sub-clause instead of the table?
          1. See the clause vs table
          2. Why not just refer to the table?
          3. The table is different, so the description is better to be referred to.
       4. The tables are not consistent so the description needs to be referred to.
       5. Straw poll:
          1. Section vs Table;
          2. Section : 111 Table: 1 Abstain: 11 DNV: 11
          3. Go with Section
       6. Proposed resolution: Revised. Change “The content of the address fields is defined in Table 8-34 (Address field contents).” to “The content of the address fields transmitted by non-mesh STAs is defined in Table 8-34 (Address field contents). The content of the address fields transmitted by mesh STAs is defined in 9.35.3 (Frame addressing in an MBSS).”
       7. After straw poll - mark ready for motion
    5. CID 3143 MAC
       1. Review comment
       2. Proposed resolution. Revised; Replace the text in 611.52-60 with “The address fields for Multihop action frames are described in 9.35.3 (Frame addressing in an MBSS).”
       3. No objection mark ready for motion
    6. CID 3351 MAC
       1. Review Comment
       2. Proposed resolution: Rejected. “The cited text refers to HCCA operation. EDCA TXOPs do not depend on TBTT.”
       3. Discussion on if a Note is needed or not.
       4. 9.22.3 is HCCA
       5. This section would be therefore HCCA issues.
       6. Updated Proposed Resolution: Revised Rename Title of 9.22.3.3 to “HCCA TXOP structure and timing” and the clause title of 9.22.3.4. to “NAV Operation of a TXOP under HCCA.”
       7. No objection - mark ready for motion
    7. Recap Action items/issues–
       1. only one CID 3119 will need to come back
       2. Adrian to review possible issue related to 3019.
       3. Question on CID 3355/3374
          1. They were assigned to Mark RISON during the Athens, Greece meeting.
  1. **Review 11-14-1041** - Dorothy STANLEY (Aruba)
     1. 11-14/1041r2 was posted – r3 will capture today’s changes made during the conference call.
     2. CID 3496 GEN
        1. Review comment
        2. Suggest that there only be one footnote
        3. Proposed resolution: Revised; incorporate the text changes for CID 3496 as detailed in 11-14/1041r3.
        4. No objection – mark ready for motion
     3. CID 3057 GEN
        1. Review comment
        2. Proposed Resolution: Accepted
        3. No objection – mark ready for motion
     4. CID 3058 GEN
        1. Review comment
        2. Proposed Resolution: Revised; Proposed resolution: Incorporate the text changes for CID 3058 as detailed in 11-14/1041r3.
        3. No objection – Mark ready for motion
        4. Note that we need to look for PLCP removal from the definitions, but that would be separate from this CID. CID 3047 takes care of this, so no worries here.
     5. Will post r3 shortly.
     6. There are some additional CIDs that will come later(not addressed today).
  2. **Review 11-14-1104** - Mark RISON (Samsung)
     1. 11-14/1104r1 is on the server and was the subject of discussion in Athens, r2 was not posted after the Athens meeting.
        1. It was requested that Mark post the r2 so that it captures the discussion and gives revisions as boundaries for the discussion times.
     2. CID ~~3321~~ 3325 MAC

[*Secretary Note: this was presented as 3321, but really it should have been identified as 3325 (11-14/1104r2 has the wrong number (3321) but it has been corrected in R3*]

* + - 1. Review comments
      2. Discussion on the rational for the note
         1. We have been trying to not mix state and capabilities.
         2. Change the proposed note to “This subfield indicates the operational state immediately after association.”
      3. Review other proposed changes
      4. Concern about restricting the AP from changing the number of spatial streams. Need to have more discussion on this.
      5. We also need more discussion on the DLS to see if it is inconsistent with the power save or not.
      6. AI: Mark RISON to contact Matthew FISCHER and Menzo WENTINK for feedback.
         1. *[Secretary Note: (Menzo WENTINK) is currently assigned CID 3321 which was originally identified as the CID for this discussion.]*
    1. Out of time.
  1. Next call on Oct 24
     1. Will start with 11-14/1104r3 - Mark RISON and do at least an hour. Will focus on the technical CIDs first.
  2. **Adjourned at 12:02 ET**.

1. **Minutes for 802.11 TG REVmc on 24 October 2014 10:00-12:00**
   1. **Called to order** by Dorothy STANLEY (Aruba) at 10:02am
   2. **Review Patent Policy** – No issues noted
   3. **Review Agenda:**

1. Call to order, patent policy, and attendance.  
2. Editor report -   
3. Comment resolution: Available resolutions and presenters from:

a) CID 3019 – 11-14/1345 Adrian STEPHENS

b) CID 3119 in 11-14-0923 - Mike MONTEMURRO

c) CIDs CIDs 3313, 3314, 3493, 3141, 3281, 3282, 3334, 3346, 3353, 3394, in  11-14-1041-04-000 – Dorothy STANLEY

d) CIDs in 11-14-1104 - Mark RISON - technical comments (min 1 hour)

e) 11-14-1104 - Mark RISON

f) 11-14-1173 - Gabor BAJKO

4. Remaining Editorial CIDs

5. AOB

6. Adjourn

* + 1. No objection to the agenda
  1. **Attendance**: Adrian STEPHENS (Intel); Dorothy STANLEY (Aruba); Jon ROSDAHL (CSR); Michael MONTEMURRO (Blackberry); Mark RISON (Samsung) Mark HAMILTON (Spectralink); Sean COFFEY (Realteak)(No Audio);
  2. **Editor report** -
     1. D3.3 is now available
     2. Need reviewers
  3. **CID 3019 MAC– 11-14/1345** Adrian STEPHENS
     1. Review comment
     2. Discussion on 11-14/207r3 consequence of implementation
        1. 1274.19(d3) change reviewed
     3. Review the discussion outlined in 11-14/1345r0
     4. Proposed Resolution: Revised. Delete the cited sentence, because it has no normative effect.
     5. Question on the primitives that are being changed, and if they can change the basic rate sets or not.
        1. There may not be any issue, but we may want to look at descriptions in the future.
     6. This changes the resolution from the previous resolution.(from Oct 3 call).
     7. No objection – mark ready for motion
  4. **CID 3119 MAC in 11-14-0923r7** - Mike MONTEMURRO
     1. Review Comment
     2. Proposed Resolution: Revised. Make the Changes indicated in Doc 14/0923r7 under CID 3119
     3. Discussion on the actual change to the PS summary sentence
     4. Proposed new sentence: “STA enters the Awake State to receive or transmit frames. The STA remains in the Doze state otherwise.”
     5. No objection to the change (will be included in R7).
     6. Mark ready for motion
  5. **CIDs 3313, 3314, 3493, 3141, 3281, 3282, 3334, 3346, 3353, 3394, in  11-14/1041r05** Dorothy STANLEY
     1. Start on page 19, we looked at the others earlier
     2. CID 3313, 3314 – MAC
        1. Review comments
        2. Proposed Resolution CID 3313: Rejected – The cited text is in the “Dual CTS protection procedure” section. Dual CTS has been deprecated. No Change is required.
        3. Proposed Resolution CID 3314: RevisedAt 1259.42, insert the following text: “NOTE—The following paragraph addresses the Dual CTS protection mechanism. The use of the Dual CTS protection mechanism is deprecated.
        4. No objection mark ready for motion
     3. CID 3493 GEN
        1. Review Comment
        2. Review proposed changes
        3. Proposed Resolution: REVISED (GEN: 2014-10-24 14:43:57Z) Incorporate the changes in 11-14/1041r6 for CID 3493.Line references are relative to D3.0
        4. No objection – mark ready for motion
     4. CID 3141 MAC
        1. Review Comment
        2. Proposed Resolution: Revised – incorporate changes as noted under CID 3141 in 11-14/1041r6.
        3. Question on the “TVHT” in the parameters of the primitives
        4. Checked and it is ok
        5. No objection – Mark Ready for Motion
     5. CID 3281 and 3282 GEN
        1. Review comments
        2. Proposed Resolution: REJECTED (GEN: 2014-10-24 14:55:38Z) Rejected The WDS term is listed in 3.1 Definitions that gets integrated into a generic dictionary of terms. This term is still in active use in devices implementing the IEEE 802.11 standard and such use is likely to continue to be the case in the future. As such, it is useful to maintain this definition.

Note to commenter: This comment is effectively a duplicate comment to Comment 301 in https://mentor.ieee.org/802.11/dcn/13/11-13-0233-40-000m-revmc-wg-ballot-comments.xls.

The resolution there was to keep the term, with an explanation: “The WDS term is listed in 3.1 Definitions that gets integrated into a generic dictionary of terms. This term is still in active use in devices implementing the IEEE 802.11 standard and such use is likely to continue to be the case in the future. As such, it is useful to maintain this definition.”

* + - 1. No objection – mark ready for motion
    1. CID 3334 MAC
       1. Review Comment
       2. Proposed Resolution: Revised- At 992.31 change the section reference from 10.24.5 to 10.6.
       3. No objection – Mark Ready for motion
    2. CID 3346 GEN
       1. Review Comment
       2. Proposed Resolution: REVISED (GEN: 2014-10-24 14:58:23Z) Proposed Resolution: Revised – incorporate changes as noted under CID 3346 in 11-14/1041r6.
       3. No objection Mark ready for motion
  1. **CIDs in 11-14-1104r3** - Mark Rison - technical comments (min 1 hour)
     1. CID 3323 MAC and 3325 GEN
        1. Where we left off last time – note that CID was corrected in the minutes from last time (Oct 3)
        2. Request to reach out was completed by Menzo, but no reply from Matthew F. Some support from Adrian was also received.
        3. Review proposed changes (see page 5-8)
        4. Proposed resolution: REVISED (GEN: 2014-10-24 15:03:40Z) Revised incorporate the changes as noted under CID 3323/3325 in 11-14/1104r4
        5. No objection – mark ready for motion
     2. CID 3324 MAC
        1. Review comment
        2. Proposed resolution: REVISED Add the following at 1829.25: “NOTE 3—The number of spatial streams might be further restricted if the receiving STA is in SM power save mode (see 10.2.5).” Increment the number of the two following NOTEs.
        3. No objection – mark ready for motion
     3. CID 3355 MAC
        1. Review Comment
        2. Proposed Resolution: Revised incorporate the changes as noted under CID 3355 in 11-14/1104r4
        3. Discussion on “necessarily”
        4. Page 38 change return(ed) to include(d)
        5. More changes and noodling required.
     4. CID 3440 Editor
        1. This seemed fairly straight forward, so would ask people to take a look at it, but don’t want to take time on this one today.
     5. CID 3478 MAC
        1. Review comment
        2. Distinction between EOF PAD vs EOF padding
        3. Also discuss pre-EOF padding
        4. Propose Change “This Padding” to EOF padding in the definition. –cannot do this as we don’t use the term being defined in the definition.
        5. No change was made.
        6. Proposed Resolution: REVISED (MAC: 2014-10-24 16:06:29Z): Make the changes described in 11-14/1104r4 under "Proposed changes:" for CID 3478. This addresses the comment in a different way to the way proposed by the commenter.
        7. No objection – Mark ready for motion
     6. CID 3137 GEN
        1. Review comment
        2. Proposed resolution: REJECTED (GEN: 2014-10-24 15:57:46Z) The TVHT PHY does not require support for HT PPDUs (See 23.2.4 at 2575.62) The 11af CRC erred..
     7. CID 3136 GEN
        1. Review comment
        2. Proposed Resolution: ACCEPTED (GEN: 2014-10-24 15:58:31Z)
        3. No objection – Mark ready for motion
     8. CID 3051
        1. Review Comment
     9. Out of Time
     10. Start with Mark on Oct 31 – PICs comments
  2. Review Proposed Agenda for next week

a) Status of CID 3152 if available - Menzo WENTINK, Sean COFFEY

b) Jon ROSDAHL CIDs:

CID 3438 - Security Tab  
CID 3372 - Terminology Tab  
CID 3463 - Terminology Tab  
CID 3528 - Definitions Tab  
CID 3561 - Definitions Tab

CID 3352 - Protection mechanisms (not yet in the file, but hope to next week or so.

5 of the 6 CIDs proposed resolutions are now posted in 11-14/975r6:  
<https://mentor.ieee.org/802.11/dcn/14/11-14-0975-06-000m-lb202-gen-adhoc-comments.xlsx>

(c) CIDs in 11-14-1104 - Mark RISON, continued - (min 1 hour)

d) One hour for Mark RISON, and one hour for others

* 1. Adjourned 12:01pm ET

**References:**

**3 Oct 2014:**

<https://mentor.ieee.org/802.11/dcn/14/11-14-0923-05-000m-tgmc-selected-mac-comment-resolutions.docx>

<https://mentor.ieee.org/802.11/dcn/14/11-14-1041-02-000m-lb202-assigned-comments.docx>

<https://mentor.ieee.org/802.11/dcn/14/11-14-1041-03-000m-lb202-assigned-comments.docx>

<https://mentor.ieee.org/802.11/dcn/14/11-14-1104-02-000m-resolutions-for-some-mac-pics-and-security-comments-on-11mc-d3-0-lb202.docx>

**24 Oct 2014:**

<https://mentor.ieee.org/802.11/dcn/14/11-14-1345-00-000m-lb202-stephens-resolutions-part-deux.doc>

<https://mentor.ieee.org/802.11/dcn/14/11-14-0207-08-000m-lb199-stephens-comments.doc>

<https://mentor.ieee.org/802.11/dcn/14/11-14-0923-07-000m-tgmc-selected-mac-comment-resolutions.docx>

<https://mentor.ieee.org/802.11/dcn/14/11-14-1041-05-000m-lb202-assigned-comments.docx>

<https://mentor.ieee.org/802.11/dcn/14/11-14-1041-06-000m-lb202-assigned-comments.docx>

<https://mentor.ieee.org/802.11/dcn/14/11-14-1104-03-000m-resolutions-for-some-mac-pics-and-security-comments-on-11mc-d3-0-lb202.docx>