IEEE P802.11  
Wireless LANs

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| Minutes for REVme 2023 January 6 and 9 Telecon | | | | |
| Date: 2023-01-09 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
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|  |  |  |  |  |

Abstract

REVme Telecon Minutes for January 6th and 9th, 2023  
 R0: January 6th Minutes.

R1: January 9th Minutes.

**Action Items:**

1.8.3.10 ACTION ITEM #1: Mark RISON to provide the VISO figure source for Figure 10-147 (p2283) to the EDITOR.

* + - 1. ACTION ITEM #2: Mark RISON to provide Visio file for CCMP Figure\_13\_14.
      2. ACTION ITEM #3: Michael MONTEMURRO to send email to the 802.11 Reflector noting that CID 3165 (MAC) in doc 11-22/2044r1 was discussed in REVme, but that it was determined that more discussion in ARC may be needed, but also TGbc, TGbh and UHR subject matter experts may need to weigh in.

1. **TGme (REVme) Telecon –Friday, January 5, 2023, at 10:00-12:00 ET**
   1. **Called to order** 10:02 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
   2. **Introductions of other Officers present:**
      1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
      2. Vice Chair - Mark RISON (Samsung)
      3. Editor - Emily QI (Intel)
      4. Secretary - Jon ROSDAHL (Qualcomm)
   3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Hedayat, Ahmadreza | Apple Inc. |
| 2 | Levy, Joseph | InterDigital, Inc. |
| 3 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 4 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 5 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 6 | Qi, Emily | Intel |
| 7 | RISON, Mark | Samsung Cambridge Solution Centre |
| 8 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 9 | Smith, Graham | SR Technologies |
| 10 | Sun, Bo | Sanechips |
| 11 | Thakore, Darshak | Cable Television Laboratories Inc. (CableLabs) |
| 12 | Wei, Dong | NXP Semiconductors |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
     1. **Participation and policy related (including Patent and Copyright) slides: See p4-19 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-0856-00-0000-2nd-vice-chair-report-july-2022.pptx>
     2. No issues were noted.
  2. **Review agenda**:11-22/2060r6:
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2060-06-000m-november-january-teleconference-agenda.docx>
     2. **Today’s Agenda:**
     3. Call to order, attendance (<https://imat.ieee.org/attendance> ), and patent and copyright policy
     4. Approve Agenda
     5. Editor report – Emily QI/Edward AU
     6. Comment resolution
        1. CIDs 3514, 3375 – RISON (Samsung)
        2. EDITOR1 CIDs – QI (Intel)
     7. Adjourn
     8. Agenda approved without objection.
  3. **Editor Report** - Emily QI (Intel) / Edward AU (Huawei)
     1. Close to complete roll-in of approved comments.
     2. Hope to have a draft for Review Monday and end of next week have 2.1 ready to post.
  4. **CIDs 3514 (PHY) and 3375 (PHY)** – Mark RISON (Samsung)
     1. CID 3514 and 3375 (PHY)
        1. After posting an email to reflector, received no response.
        2. Discussion on if “STA capabilities” is defined sufficiently
        3. Need to have locations determined to ensure the correct changes are made.
        4. 400 Instances are in c.3
        5. Discussion on why make the change. Device may have more than one STA. So having a Device called out here is going to be overloaded. The use of STA capability is sufficient that no definition is needed.
        6. Proposed Resolution: CID 3375 (PHY) – Accepted.
        7. Proposed Resolution: CID 3514 (PHY): Revised. Replace "device capabilities" with "STA capabilities" (note to Editor, same resolution as CID 3375). Note to commenter, the phrase "STA capabilities" is self-defining as an English phrase.
        8. No Objection – Mark Ready for Motion
  5. **EDITOR1 CIDs** – 11-22/2072r2 - Emily QI (Intel)
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2072-02-000m-proposed-resolution-for-revme-lb270-editor1-ad-hoc-comments.docx>
     2. CID 3298 (ED1)
        1. Review Comment
        2. 26 instances of “on the medium” and 29 instances of “on the WM”
        3. Discussion the direction to may be change to “on the WM”.
        4. Need to check each instance to ensure that it works.
        5. Do we review now or refer CID back to the commenter.
        6. The definition section should not use “WM”, but rather “wireless medium”.
        7. CID 3298 (ED1): Direction is to change "on the medium" to "on the WM" (with expansion in Definitions, as needed). Assign to Mark RISON to double-check the instances.
        8. Mark CID *“More Work Required”*
        9. Assign CID to Mark RISON
        10. Schedule CID for Review to telecon in February.
     3. CID 3309 (ED1)
        1. Review Comment
        2. Review discussion in submission.
        3. Discussion on the changes.
           1. “Beacon Frame” exists; DTIM have beacons but are they DTIM Beacon Frames; what happens when it is an S1G Beacon that is also a DTIM.
        4. Discussion on ok to make “DTIM Beacon” to “DTIM beacon”
        5. Straw Poll:
           1. Do you support "change "DTIM Beacon frame" to "DTIM beacon""?

Result: 5 yes, 2 No, 1 abstain.

* + - 1. At this point, the direction would be toward Accept the Comment.
      2. Proposed Resolution: Accept
      3. No objection – Mark Ready for Motion
      4. Changes to cited Figure 10-147 (p2283) needs to have an updated figure supplied.
      5. ACTION ITEM #1: Mark RISON to provide the VISO figure source for Figure 10-147 (p2283) to the EDITOR.
    1. CID 3361 (ED1)
       1. Review Comment
       2. There are more instances than cited.
       3. Mark CID *“More Work Required”*
       4. Assign CID to Mark RISON
       5. Schedule CID for Review to telecon in February.
    2. CID 3362 (ED1)
       1. Review Comment
       2. Review discussion in submission.
       3. Mark CID *“More Work Required”*
       4. Assign CID to Mark RISON
       5. Schedule CID for Review to telecon in February.
    3. CID 3367 (ED1)
       1. Review Comment
       2. There are 90 instances of “DL MU-MIMO"; 43 instances of "DL-MU-MIMO". 11ax introduced most of “DL MU-MIMO”.
       3. Discussion on the common practice for “-“
       4. Proposed resolution: CID 3367 (ED1): Revised. Change "DL-MU-MIMO" to "DL MU-MIMO" throughout the draft.
       5. No Objection – Mark Ready for Motion.
    4. CID 3369 (ED1)
       1. Review Comment
       2. Proposed Resolution: Accepted.
       3. No Objection – Mark Ready for Motion.
    5. CID 3379 (ED1)
       1. Review Comment
       2. Review discussion in submission.
       3. There seems to be different types of Vendor Specific information, so they may need a bit of a specific definition.
       4. Mark CID “*More Work Required*”
       5. Assign CID to Mark RISON
       6. Schedule CID for Review to telecon in February.
    6. CID 3404 (ED1)
       1. Review Comment
       2. Review discussion submission.
       3. 3 instances were shown for different PHYs, and so if it is specified for the specific PHY, then does it need to be identical?
       4. Move CID to PHY AdHoc
       5. Mark CID “*More Work Required*”
       6. Assign CID to Mark RISON
       7. Schedule CID for Review to telecon in February.
    7. CID 3419 (ED1)
       1. Review Comment
       2. Review Context as captured in discussion in submission.
       3. Discussion of lack of consistency of using “bit” or “subfield” in the table.
       4. Editor to take the topic of use of subfield vs field in general to the Editor Group.
       5. Proposed Resolution: Revised; Change “bit” to “subfield” at 983.34/38/42 and change “frame” to “Frame” at 983.42.
       6. No objection – Mark Ready for Motion.
       7. This is consistent with CIDs 3167 and 3168 already processed.
    8. CID 3428 (ED1)
       1. Review comment
       2. Review discussion in submission.
       3. Discussion on 9.4.2 vs 9.4.3 description usage.
       4. Proposed resolution: Incorporate the “Proposed Resolution” for CID 3428 in doc 11-22/2072r3 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2072-03-000m-proposed-resolution-for-revme-lb270-editor1-ad-hoc-comments.docx>).
       5. No objection – Mark Ready for Motion
    9. CID 3430 (ED1)
       1. Review Comment
       2. Proposed Resolution: Revised. Incorporate the “Proposed Resolution” for CID 3428 in doc 11-22/2072r3 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2072-03-000m-proposed-resolution-for-revme-lb270-editor1-ad-hoc-comments.docx>).
       3. No Objection – Mark Ready for Motion
    10. CID 3429 (ED1)
        1. Review Comment
        2. Proposed Resolution: Accepted.
        3. No Objection – Mark Ready for Motion

* + 1. CID 3462 and 3463 (ED1)
       1. Review Comments
       2. Review discussion in submission
       3. Review context.
       4. Discussion on use of numbers in tables.
       5. Proposed Resolution: CID 3462 (ED1): Rejected. Reject reason: the value of field should not be specified in the figure format.
       6. Proposed Resolution: CID 3463 (ED1): Accepted
       7. No Objection – Mark both CIDs Ready for Motion.
    2. CID 3525 (ED1)
       1. Review Comment
       2. Proposed Resolution: Accepted.
       3. No Objection – Mark Ready for Motion
    3. CID 3619 (ED1)
       1. Review Comment
       2. Proposed Resolutions:Revised. 2281.1, change “10.23.2.3 (EDCA TXOPs)” to “10.23.2.9 (TXOP limits).
       3. No Objection – Mark Ready for Motion
    4. CID 3112 (ED1)
       1. Review Comment
       2. Review discussion in submission.
       3. Use of capitalization should match external references when they are made.
       4. Proposed Resolution: Rejected. “Counter Mode” is an external reference. It should be “Counter Mode” according to the style guide.
       5. Check 263.52 (there are two instances that should be made Capital).
       6. It was noted that two locations had lower case, and it needed to be upper case.
       7. Updated Proposed Resolution: CID 3112 (ED1): Revised. At 263.52 and 263.53 change "counter mode" to "Counter Mode". Note to commenter, “Counter Mode” is an external reference. It should be “Counter Mode” according to the style guide.
       8. No Objection – Mark Ready for Motion
    5. CID 3113 (ED1)
       1. Review Comment
       2. Review discussion in submission.
       3. Basically, the same as CID 3112, but on a different counter.
       4. Proposed Resolution: Revised; At 1105.57 and 2395.33, change “FMS Counter ID” to “FMS counter ID”.
       5. No Objection – Mark Ready for Motion

* + 1. CID 3621 (ED1)
       1. Review Comment.
       2. Review discussion in submission.
       3. Review the instances in the one subclause for changes of recipient to receiver or visa-versa.
       4. Proposed Resolution: CID 3113 (ED1): Revised. Change "recipient" to "receiver" in 12.5.3.4 "BIP replay protection". (2 Instances).
       5. No Objection – Mark Ready for Motion
  1. **Reminder Next Telecon is Monday January 9th 10-12 ET.**
  2. **Adjourn at 11:54 AM ET.**

1. **TGme (REVme) Telecon –Friday, January 5, 2023, at 10:00-12:00 ET**
   1. **Called to order** 10:02 am ET by the TG Chair, Michael MONTEMURRO (Huawei).
   2. **Introductions of other Officers present:**
      1. Vice Chair - Mark HAMILTON (Ruckus/CommScope)
      2. Vice Chair - Mark RISON (Samsung)
      3. Editor - Emily QI (Intel)
      4. Secretary - Jon ROSDAHL (Qualcomm)
   3. **IMAT Reported attendance**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| 2 | Coffey, John | Realtek Semiconductor Corp. |
| 3 | Halasz, David | Morse Micro |
| 4 | Hamilton, Mark | Ruckus Wireless |
| 5 | Hedayat, Ahmadreza | Apple Inc. |
| 6 | Hervieu, Lili | Cable Technology Laboratories, Inc. |
| 7 | Kim, Youhan | Qualcomm Technologies, Inc. |
| 8 | Levy, Joseph | InterDigital, Inc. |
| 9 | McCann, Stephen | Huawei Technologies Co., Ltd |
| 10 | Montemurro, Michael | Huawei Technologies Co., Ltd |
| 11 | Petrick, Albert | Jones-Petrick and Associates, LLC. |
| 12 | Qi, Emily | Intel |
| 13 | RISON, Mark | Samsung Cambridge Solution Centre |
| 14 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
| 15 | Wei, Dong | NXP Semiconductors |

* 1. **Review Patent Policy and Copyright policy and Participation Policies.**
     1. **Participation and policy related (including Patent and Copyright) slides: See p4-19 in** <https://mentor.ieee.org/802.11/dcn/22/11-22-0856-00-0000-2nd-vice-chair-report-july-2022.pptx>
     2. No issues were noted.
  2. **Review agenda**:11-22/2060r7:
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2060-07-000m-november-january-teleconference-agenda.docx>
     2. Agenda is 11-22/2060r7, updating to r8 on the call
     3. Move Edward’s items to start of meeting
     4. No objection to approving updated agenda r8 – unanimous consent.
  3. **Editor Report** – Emily QI (Intel)
     1. Review of 2.1 is in process.
     2. Editors have completed integration of comments approved in Nov and Dec, into a candidate D2.1. Undergoing off-line review.
     3. Plan to post around end of this week.
  4. **Review doc 11-22/2063r4** – Edward AU (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2063-04-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-2.docx>
     2. CID 3413 (ED2):
        1. Review comment
        2. Proposed Resolution: CID 3413 (ED2): Incorporate the changes in 11-22/2063r5 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2063-04-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-2.docx>), for CID 3413.
        3. No objection – Mark Ready for Motion
  5. **Review Doc 11-22/2210r1** Edward AU (Huawei)
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2210-01-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-4.docx>
     2. CID 3234 (ED2)
        1. Review comment
        2. Proposed Resolution: CID 3234 (ED2): Accepted.
        3. No Objection – Mark Ready for Motion.
     3. CID 3661 (ED2)
        1. Review Comment
        2. Proposed Resolution: CID 3661 (ED2): Revised. Editors to regenerate the emf from the Visio source of Figure 12-23 and insert the new emf to the draft standards.
        3. No Objection – Mark Ready for Motion.
     4. CID 3683 (ED2)
        1. Review comment
        2. Review discussion from submission.
        3. Discussion on the proposed changes that may be made.
        4. Request to understand the location for each
        5. Mark CID *“More Work Required”*
        6. Assign to Mark RISON
        7. Schedule for February Telecon
     5. Return to CID 3661 (ED2)
        1. Editor was not sure what the issue with the figure is.
        2. An example was shown to clarify the issue with the figure.
        3. After discussion, it was clear.
     6. CID 3727 (ED2)
        1. Review Comment
        2. Review the Need for Visio update. Editors will take care of the update for this Visio update.
        3. Proposed Resolution: CID 3727 (ED2): Accepted. Note to the Editors: The Visio source file is Figure\_13\_14.
        4. No Objection – Mark Ready for Motion.
     7. CID 3725 (ED2)
        1. Review Comment
        2. Review discussion in submission.
        3. Doc 11-22/0353 had a discussion on this topic during the D1.0 comment resolutions. (IDs 2141 and 1554 respectively)
        4. The belief is that we ran out of time then.
        5. This acronym gets reduced to CCFS, so the choice will need to be carefully determined.
        6. Discussion on adding a NOTE may be enough, and we will need to determine the proper location.
        7. We also could add a phrase that “this is an index to locate the center frequency”
        8. Mark CID *“More Work Required”*
        9. Assign to Mark RISON
        10. Schedule for February Telecon
     8. Return to CID 3661 (ED2)
        1. The Visio file for this one is not editable.
        2. This will need to be recreated and would ask for a new file to be prepared.
        3. It is marked Revised, and the Commentor can provide the source.
        4. Note that the GCMP Visio file is editable.
        5. ACTION ITEM #2: Mark RISON to provide Visio file for CCMP Figure\_13\_14.
     9. CID 3117 (ED2)
        1. Review Comment.
        2. Review discussion in submission.
        3. Proposed Resolution: CID 3117 (ED2): Rejected; We have a Normative reference: "NIST Special Publication 800-38D, Recommendation for Block Cipher Modes of Operation: Galois/Counter Mode (GCM) and GMAC, Dworkin, M., Nov. 2007."
        4. No Objection – Mark Ready for Motion.
     10. CID 3116 (ED2)
         1. Review Comment
         2. Review discussion in submission
         3. Proposed Resolution: CID 3116 (ED2): Revised.

Replace “a BSS Parameter Update Counter” with “a BSS parameter update counter” at 4568.35;

Replace “the BSS Parameter Update Counter” with “the BSS parameter update counter” at 4568.36.

Replace “the BSS Parameter Update Counter” with “the BSS parameter update counter” at 4568.58;

Replace “the Counter value” with “the Counter subfield” at 4568.60.

Replace “a BSS Parameter Update Counter” with “a BSS parameter update counter” at 4568.58;

Replace “a BSS Parameter Update Counter” with “a BSS parameter update counter” at 4569.63;

Replace “its BSS Parameter Update Counter” to “its BSS parameter update counter” at 4569.64.

Replace “its BSS Parameter Update Counter” to “its BSS parameter update counter” at 4570.4.

* + - 1. No Objection – Mark Ready for Motion
    1. CID 3686 (ED2):
       1. Review Comment.
       2. Review discussion in submission.
       3. Proposed Resolution: CID 3686 (ED2): Revised. Incorporate the changes in 11-22/2210r1 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2210-01-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-4.docx>) for CID 3686.
       4. No Objection – Mark Ready for Motion
    2. CID 3208 (ED2)
       1. Review comment
       2. Proposed Resolution: Accepted.
       3. No Objection – Mark Ready for Motion

* + 1. CID 3295 (ED2)
       1. Review comment
       2. Visio file is available for Editor to update.
       3. Proposed Resolution: Accepted.
       4. No Objection – Mark Ready for Motion
    2. CID 3241 (ED2)
       1. Review Comment
       2. Review discussion in submission.
       3. Review the changes to be made.
       4. The change of “subfield” to “field” as to make consistent.
       5. Discussion on if the PMKID Count is a field or subfield.
       6. Proposed Resolution: CID 3241 (ED2): Revised. Incorporate the changes in 11-22/2210r2 (<https://mentor.ieee.org/802.11/dcn/22/11-22-2210-02-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-4.docx>) for CID 3241.
       7. No Objection – Mark Ready for Motion
    3. CID 3461 (ED2)
       1. Review Comment
       2. Need to check if there are Visio source file.
       3. Figure 11-36.
       4. Proposed Resolution: CID 3461 (ED2): Accepted. Note to Editor: This is Figure 11-36, at locations 2560.36 and 2560.52
       5. No Objection – Mark Ready for Motion
    4. CID 3613 (GEN)
       1. Need to come back to later in the call.
  1. **Review CID 3796 (MAC)** – Mark RISON (Samsung)
     1. CID 3796 (MAC)
        1. Revisit of CID that was pulled from motion. The off-line discussion that was requested has occurred and agreed with the proposed resolution.
        2. Mark R. sent email to the reflector and confirmed that the changes proposed are correct.
        3. Proposed Resolution: Accepted.
        4. No Objection – Mark Ready for Motion
  2. **Review doc 11-22/1437r2** - Dong WEI (NXP)
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-1437-02-000m-ht-transmit-spectrum-mask-alignment.docx>
     2. CIDs 3779, 3778 (PHY):
        1. Review Comments
        2. Review discussion in submission.
        3. Visio updates will need to be provided by commenter.
        4. Discussion on how the dBm/MHz number is calculated.
        5. Discussion on the history of where the numbers in Table 1 came from.
        6. More discussion on these values as a whole should be done in the future.
        7. Making these changes are germane to the CIDs this time.
        8. Proposed Resolution: CIDs 3779, 3778 (PHY): Revised. Incorporate the changes in 11-22/1437r2.
        9. With one Abstention – Mark Ready for Motion

* 1. **Review doc 11-22/2044r1** - Lili HERVIEU (CableLabs)
     1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2044-01-000m-resolution-for-cid-3165.docx>
     2. CID 3165 (MAC)
        1. Review Comment.
        2. Review discussion in submission.
        3. Review the resulting proposed changes.
        4. Discussion on why the unicast address is necessary.
        5. This may be a topic to take to UHR for Virtual BSSIDs.
        6. Question on Beacon protection and the other side issues.
        7. Question on why S1G would be excluded.
           1. As DMG and S1G have different beacon frames, then they both my need to be excluded.
        8. What about TGbc, TGbh, and TGbi, these may have impact on the proposal. More work to check.
        9. Concern with the removal of the group address and using a unicast address to an address that may not be known ahead of time.
        10. Upper layers may be handling the onboarding, but the provisioning will need to be detailed or at least described to know how it will work.
        11. Question on if more discussion is needed.
        12. This may be something that could be discussed in ARC.
        13. ACTION ITEM #3: Michael MONTEMURRO to send email to the 802.11 Reflector noting that CID 3165 (MAC) in doc 11-22/2044r1 was discussed in REVme, but that it was determined that more discussion in ARC may be needed, but also TGbc, TGbh and UHR subject matter experts may need to weigh in.
        14. Mark CID as *“More Work Required”*
        15. Assign to Lili HERVIEU
        16. Schedule for March Plenary
  2. An Addition slot was requested for the interim, the Additional Slot is on Tuesday AM1
  3. **Adjourn 11:33am**

**References:**

January 6th:

1. <https://mentor.ieee.org/802.11/dcn/22/11-22-0856-00-0000-2nd-vice-chair-report-july-2022.pptx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-2060-06-000m-november-january-teleconference-agenda.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-2072-02-000m-proposed-resolution-for-revme-lb270-editor1-ad-hoc-comments.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-2072-03-000m-proposed-resolution-for-revme-lb270-editor1-ad-hoc-comments.docx>

January 9th:

1. <https://mentor.ieee.org/802.11/dcn/22/11-22-2060-07-000m-november-january-teleconference-agenda.docx>
2. <https://mentor.ieee.org/802.11/dcn/22/11-22-2063-04-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-2.docx>
3. <https://mentor.ieee.org/802.11/dcn/22/11-22-2210-01-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-4.docx>
4. <https://mentor.ieee.org/802.11/dcn/22/11-22-2210-02-000m-proposed-resolution-for-miscellaneous-lb270-comments-part-4.docx>
5. <https://mentor.ieee.org/802.11/dcn/22/11-22-1437-02-000m-ht-transmit-spectrum-mask-alignment.docx>
6. <https://mentor.ieee.org/802.11/dcn/22/11-22-2044-01-000m-resolution-for-cid-3165.docx>