IEEE P802.11  
Wireless LANs

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| Minutes for REVmf 2025 January Interim - Kobe | | | | |
| Date: 2025-01-16 | | | | |
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Abstract

Minutes for REVmf at the 2025 January 802W Interim held in Kobe, Japan

1. **2025 January IEEE 802W Interim – Kobe** – 802.11mf (REVmf) – Monday January 13, 2025, PM2.
   1. **Called to order** at 4:05pm by the TG chair Michael Montemurro (Huawei).
   2. **Attendance:** 22 in the room; 36 on Webex; 43 logged in IMAT.
   3. **Reminder that Registration is required**.
      1. <https://touchpoint.eventsair.com/2025-jan-ieee-802-wireless-interim-session/registration>
   4. **Introduction of Task Group Officers**:
      1. Present:
         1. TG Chair: Michael Montemurro (Huawei),
         2. TG Vice Chair: Mark Hamilton (Ruckus/Commscope)
         3. Jon Rosdahl (Qualcomm)
         4. TG Editor: Po-kai Huang (Intel)
      2. Not Present:
         1. TG Vice Chair: Mark Rison (Samsung)
         2. TG Editor: Edward Au (Huawei), [Supervisory]
         3. TG Editor: Emily Qi (Intel)
   5. **Review Patent, Copyright, Participation policies.**
      1. No Issues noted.
   6. **Review and Approve Agenda** 802-11-24/2073r2 Updated Agenda will be r3
      1. <https://mentor.ieee.org/802.11/dcn/24/11-24-2073-02-000m-revmf-agenda-january-2025.pptx>
      2. **Monday January 13, 4pm JST**
2. Chair’s Welcome, Policy & patent reminder
3. Approve agenda
4. Motions
5. Minutes (Slide 7)
6. Publication status for IEEE 802.11-2024 and amendments
7. Contributions
   1. Figure location correction – doc 11-24/2134 – Yang (China Mobile)
   2. C2C AP signaling – 11-25/140 – Kim (Qualcomm)
   3. EBCS UL – 11-25/133 – Patil (Qualcomm)
   4. MLO extension for WLAN mesh – 11-25/132 – Patil (Qualcomm)
8. Recess  
   1. **Motion to Approve past Minutes**
      1. Move to Approve the November session minutes in document 11-24/2079r1 < <https://mentor.ieee.org/802.11/dcn/24/11-24-2079-00-000m-minutes-for-revmf-2024-november-plenary-vancouver.docx>>
      2. Move: Jon Rosdahl
      3. 2nd: Joseph Levy
      4. No Discussion
      5. No Objection – Approved without objection by unanimous consent.

* 1. **Status of REVme** -
     1. Editors are working on it and may have version available early February.
     2. There may be a version for sale – it is REVme the ballot version.
     3. Not the published version
  2. **Review Timeline**
     1. Produce 1.0 in May and start Ballot out of May.
* **Nov 2024 – PAR Approval**
* **Nov 2024 – Initial meeting, contributions on REVme D7.0**
* **Jan/Mar 2025 – Contributions on REVme D7.0/IEEE 802.11-2024**
* **Mar - May 2025 – Publication of 802.11-2024 and roll-in of TGbh and TGbe**
* **May 2025 – Initial D1.0 WG Letter ballot**
* **May-Nov 2025 – Roll-in TGbf and TGbk**
* **Jan 2026 – D2.0 Recirculation LB**
* **Jul 2026 – D3.0 Recirculation**
* **Jan 2027 – D4.0 Initial SA Ballot – Roll-in TGbi**
* **Jul 2027 – D5.0 Recirculation SA Ballot**
* **Nov 2027 – D6.0 Recirculation SA Ballot**
* **Jan 2028 – D6.0 Recirculation SA Ballot (clean recirculation)**
* **Feb 2028 – RevCom/SASB Approval**

* 1. **Review doc 11-24/2134**r0 – Figure location correction – Yang (China Mobile)
     1. <https://mentor.ieee.org/802.11/dcn/24/11-24-2134-00-000m-correcting-the-figure-location.docx>
     2. Review submission
        1. In the Subclause 6.5.14.1.1 of Draft P802.11REVme\_D7.0, the Figure 6-10, 6-11, 6-12 and 6-13 are in the wrong place since the figures are not related to the MLME-SETKEYS.request.
     3. Proposed Change:

1. Move the Figure 6-10, 6-11, 6-12 and 6-13 to the end of the Subclause 6.5.13.

2. Move the "The Element ID and Length fields are defined in 9.4.2.1 (General)." just after the Figure 9-664.

* + 1. No Objection for Motion on Wednesday.
  1. **Review Doc 11-25/140** – C2C AP signaling – Kim (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0140-00-000m-indoor-enabled-ap-signaling.pptx>
     2. Review Submission.
     3. Discussion on why the values are there in a piecemeal method.
        1. Discussion on the Regulatory Info Subfield values and their use and meaning.
        2. Discussion on the 3 possibilities and if regulatory allow 1 but 2 and 3 are best guess for future. This proposal allows for a solution for 2 and possibly 3.
     4. Discussion on the general presentation and fundamental evolution of regulations, but the client does not seem to evolve.
        1. Suggestion for not keep adding major fields, but rather create an array of information that can be a better method for evolution in the future.
        2. Discussion on the power level of a beacon may change the needs in the proposal.
        3. Option 2 provides for more changes in the future.
     5. Discussion on use of the value 3 in Regulatory Info Subfield.
        1. Concern with depreciation of a value but have a new value that could be used in place of the deprecated value.
        2. The error is in the Linux Kernal, but if it is fixed, does that solve the problem? No, as we do not see all the kernels would be updated in a consistent way. The use of C2C is a more limited set of vendors, and those do not want to use the value 3.
     6. Discussion on support of Option 2 for use of Japan device focus.
     7. Thanks for today’s discussion, If you have more feedback please contact the author.
  2. **Review doc 11-25/133** – EBCS UL – Patil (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0133-01-000m-ebcs-ul-transmission.docx>
     2. Abstract:

The EBCS relaying service is intended for low-power, low capability non-AP STAs. The service is best effort and does not require a non-AP STA to determine if there is an AP in the neighborhood that can relay the HLP payload carried in its EBCS UL frame. This contribution provides guidance to increase the likelihood that a non-AP STA’s EBCS UL frame is received by an EBCS AP that can provide relaying service.

* + 1. Review Submission
    2. Discussion
       1. Suggest having the Note number changed to 1 and 2 for each separate Note.
       2. Change “may” to “Should” on page 2 – 34.4.3
       3. Discussion on use case of luggage tracking device, and if they are transmit only devices. The response was to keep it more broad to have other use cases that allow for transmit vs receive capabilities.
       4. Suggest adding a Note to indicate some may be transmit only.
       5. Discussion on the change from “may” to “should”, and maybe it would be best moving to a Note and have neither.
       6. Further debate on the need for “should” and if it would be better as a note or not.
       7. The issue is if the bandwidth is being attached to the recommendation, or the frame type.
       8. The unchanged paragraph may be the source of the confusion.
       9. Concerns with the full clause being consistent with the new changes.
       10. Discussion on the need to add an acronym for “PSC” in Clause 3.
           1. Does this need a definition as well.
           2. Maybe a cross-reference would be better.
    3. Request to update the text from today’s discussion and represent on Wednesday for potential Motion.
  1. **Review Doc 11-25/132** – MLO extension for WLAN mesh –Patil (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0132-01-000m-mlo-extensions-to-11s-mesh.docx>
     2. Abstract:

This submission extends multi-link operation to mesh STA while considering various aspects such as mesh discovery, peering, addressing and security.

* + 1. Review Submission
       1. Discussion of legacy interaction. Multi-link would be more links than one.
    2. Continue the review of the new text.
       1. Discussion on the mesh peering text.
       2. Discussion on how Mesh peering would be identified for MLD support.
       3. Example with a STA with 2 links vs one with 3 links.
       4. Discussion on the channels are common for the links, and updates to the language may need to be done.
    3. Continue the review of the new text.
       1. Emphasis the legacy definitions do not change, but these new rules enhance that situation.
    4. Ran out of time, will continue Wednesday.
  1. **Recess at 5:58 pm JST** (to return Wed PM2)

1. **2025 January IEEE 802W Interim – Kobe** – 802.11mf (REVmf) – Wednesday January 15, 2025, PM2.
   1. **Called to order** at 4:01pm by the TG chair Michael Montemurro (Huawei).
   2. **Attendance:** 19 in the room, 26 in WebEx ,22 in IMAT
   3. **Reminder that Registration is required**.
      1. <https://touchpoint.eventsair.com/2025-jan-ieee-802-wireless-interim-session/registration>
   4. **Introduction of Task Group Officers**:
      1. Present:
         1. TG Chair: Michael Montemurro (Huawei),
         2. TG Vice Chair: Mark Hamilton (Ruckus/Commscope)
         3. Jon Rosdahl (Qualcomm)
         4. TG Editor: Po-kai Huang (Intel)
      2. Not Present:
         1. TG Vice Chair: Mark Rison (Samsung)
         2. TG Editor: Edward Au (Huawei), [Supervisory]
         3. TG Editor: Emily Qi (Intel)
   5. **Review Patent, Copyright and participation policies**
      1. No Issues noted.
   6. Review Agenda 802-11-24/2073r3
      1. <https://mentor.ieee.org/802.11/dcn/24/11-24-2073-03-000m-revmf-agenda-january-2025.pptx>
      2. Review Agenda Wednesday January 15, 4pm JST
2. Agenda Approval
3. Contributions
   1. Doc 11-24/1735 – Levy (Interdigital)
   2. Time of departure requirements – <TBD> – Hamilton (Ruckus-Commscope)
   3. Passpoint-related contribution – <TBD> – Malinen (Qualcomm)
   4. MLO extension for WLAN mesh (cont’d) – 11-25/132 – Patil (Qualcomm)
4. Motions – 11-24/1925r3
5. Plan for March, teleconferences
6. Adjourn
   * 1. Remove Time of Departure from the agenda
     2. No objection to updated agenda R4
        1. <https://mentor.ieee.org/802.11/dcn/24/11-24-2073-04-000m-revmf-agenda-january-2025.pptx>
   1. **Review 11-24/1735,** Joseph Levy (Interdigital)
      1. <https://mentor.ieee.org/802.11/dcn/24/11-24-1735-00-000m-correction-to-remove-behavior-from-clause-9-3-1-5.docx>
      2. Abstract

During discussions in TGbi some behavioural text in the current clause 9.3.1.5 was pointed to, as it needs to be updated to allow for TGbi operations (see 11-24/1717r0 slide 10). This illustrates why 802.11 should not contain behavioural text in clause 9, as stated in the SA and 802.11 style guides. Hence this proposed correction. It is unfortunate that this correction will not be able simplify the 802.11bi draft as 802.11bi will be based on 802.11-2024 (802.11me) and proceed amendments (e.g., 802.11bh, 802.11be, …). But this is not a reason not to make the proposed change. Please note this is an example of clause 9 behavioural text that should be removed, if TGmf agrees to this proposed way forward, additional changes to remove more behavioural text will be provided.

* + 1. Review submission
    2. Discussion:
       1. Review the specific changes, is the field only a duration, or an AID value.
       2. If the changes we make, are not available to TGbi, so if TGbi makes changes, then the changes could be opposing.
       3. The editors could work together to make the changes correct.
       4. The order is TGbi, then TGmf.
       5. Concern on the complication that delay may impose.
       6. Changes to this clause in TGbi has been presented already and the technical change could break devices in the field.
       7. In S1G the AID can change in the reassociation. Not sure which AID is being described.
       8. Concern with “when an ID is provided”. Seems that some of this is described in the next section.
       9. Support for Cleaning things up would be good but need to have more discussion.
       10. This type of change is supported by the discussion but having the TGbi make the change or not is being debated.
       11. This change has to be made in TGbi to make it consistent within TGbi. Having experts help with the changes is encourage, but it has to be change for TGbi to not break TGbi.
       12. Other suggestions for corrections for the current proposed text was made.
    3. There does not seem to be enough consensus to take action this week.
    4. Suggestion to bring back to March Session.
    5. Question on the direction of other behavioral changes to be made, but this particular one is not supported to be done in TGmf.
  1. **Review doc 11-25/0172r0** – Stephen ORR (Cisco)
     1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0172-00-000m-multicast-broadcast-segmentation-within-a-bss.pptx>
     2. Abstract

There are multiple initiatives/programs outside 802.11 that require segmentation/limiting broadcast/multicast traffic to single device or group of devices connected to the same BSS.

This submission covers:

- Use cases

- Possible solutions

* + 1. Review Submission
    2. Discussion
       1. Discussion on when GTK are disallowed.
       2. What changes would be required for multicast or broadcast, and the proxy traffic would be the responsibility of the AP.
       3. This has been deployed, and this undefined behavior should be documented and match it in the standard.
       4. The “this” thing in passport is for downstream information.
       5. More discussion on what the restrictions would need to be defined.
       6. There is some work being done in WFA on passpoint, but the high-level public part is not sufficient for the discussion today.
    3. There is some interest, suggest to follow-up in March Plenary.
  1. **Return to doc review 11-25/132r1** – Abhi PATIL (Qualcomm)
     1. There were some changes yesterday, but those and any made today will be published in r2.
     2. Continue where we left off on page 3.
     3. Continue review of submission.
        1. Discussion on Beacon Frames in a Mesh network.
     4. Continue review of submission.
     5. Thank for the submission.
     6. More review and comments to the author to bring back to March.
     7. r2 of 132 (11s+MLO) is posted to mentor: <https://mentor.ieee.org/802.11/dcn/25/11-25-0132-02-000m-mlo-extensions-to-11s-mesh.docx>
  2. **Motions – Listed in 11-24/1925r2**
     1. <https://mentor.ieee.org/802.11/dcn/24/11-24-1925-02-000m-revmf-motions.pptx>
     2. **MOTION #3**
        1. MOVE: instruct the editor to incorporate the changes under “Proposed Changes” in  
           <https://mentor.ieee.org/802.11/dcn/24/11-24-2134-00-000m-correcting-the-figure-location.docx>,  
           into the TGmf draft.
        2. Move: Stephen MCCANN
        3. 2nd: Jerome HENRY
        4. Result: No Objection – Unanimous Consent.
     3. **MOTION #4** – EBCS UL Transmission
        1. Review Document – 11-25/133r2 – Abhi PATIL (Qualcomm)
           1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0133-02-000m-ebcs-ul-transmission.docx>
           2. Review submission for background of the change that will be made.
           3. Discussion – If we are sending a 20Mhz frame, do we want to recommend that it be done at the lower rates.

Prefer to leave it for later discussion

* + - 1. Move: Instruct the editor to incorporate the changes in  
         <https://mentor.ieee.org/802.11/dcn/25/11-25-0133-02-000m-ebcs-ul-transmission.docx>,  
         into the TGmf draft.
      2. Moved: Abhi PATIL
      3. 2nd: Jouni MALINEN
      4. Results: No objection – Unanimous Consent.
    1. Updated Motion File doc 802.11-24/1925r3:
       1. <https://mentor.ieee.org/802.11/dcn/24/11-24-1925-03-000m-revmf-motions.pptx>
  1. **Plans for March**
     1. Hold Telecon on 10-day notice, but none planned.
     2. No AdHoc between now and May as we do not have a base document or LB to process.
     3. Ask for 2 slots in U-shape room for March.
     4. Plan first LB out of May with TGbe and TGbh rolled in.
  2. **Adjourned at 5:19pm JST**

**References:**

Monday January 13, 2025, PM2

1. <https://mentor.ieee.org/802.11/dcn/24/11-24-2134-00-000m-correcting-the-figure-location.docx>
2. <https://mentor.ieee.org/802.11/dcn/25/11-25-0140-00-000m-indoor-enabled-ap-signaling.pptx>
3. <https://mentor.ieee.org/802.11/dcn/25/11-25-0133-01-000m-ebcs-ul-transmission.docx>
4. <https://mentor.ieee.org/802.11/dcn/25/11-25-0132-01-000m-mlo-extensions-to-11s-mesh.docx>

Wednesday January 15, 2025, PM2.

1. <https://mentor.ieee.org/802.11/dcn/24/11-24-2073-03-000m-revmf-agenda-january-2025.pptx>
2. <https://mentor.ieee.org/802.11/dcn/24/11-24-2073-04-000m-revmf-agenda-january-2025.pptx>
3. <https://mentor.ieee.org/802.11/dcn/24/11-24-1735-00-000m-correction-to-remove-behavior-from-clause-9-3-1-5.docx>
4. <https://mentor.ieee.org/802.11/dcn/25/11-25-0172-00-000m-multicast-broadcast-segmentation-within-a-bss.pptx><https://mentor.ieee.org/802.11/dcn/25/11-25-0132-02-000m-mlo-extensions-to-11s-mesh.docx>
5. <https://mentor.ieee.org/802.11/dcn/24/11-24-2134-00-000m-correcting-the-figure-location.docx>
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7. <https://mentor.ieee.org/802.11/dcn/24/11-24-1925-03-000m-revmf-motions.pptx>