Minutes IEEE P802.11  
Wireless LANs

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| IEEE 802.11 TGbh Teleconference Minutes, September 26, 2023  Randomized and Changing MAC addresses (RCM) | | | | |
| Date: 2023-09-26 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
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Abstract

This document contains the minutes of the IEEE 802.11bh teleconference of September 26, 2023.

Note: Highlighted text are action items.

**Meeting September 26th, 2023, 9:30 a.m. to 11:30 a.m. EDT**

**Chair: Mark Hamilton (Ruckus/CommScope)**

**Vice Chair: Peter Yee (NSA-CSD/AKAYLA)**

**Vice Chair: Stephen Orr (Cisco)**

**Secretary: Peter Yee**

**Editor: Carol Ansley (Cox Communications)**

**The teleconference was called to order by the Chair at 9:33 a.m. EDT.**

Agenda slide deck [11-23/1668r00](https://mentor.ieee.org/802.11/dcn/23/11-23-1668-00-00bh-agenda-tgbh-2023-sep-26.pptx)

1. **Policies and procedures were presented by Chair Mark Hamilton. (Slides 4 to 15)**

There were no Patent declarations.

Copyright policy slides were presented (Slides 10 and 11)

1. **Agenda:**

* **Attendance, noises/recording, meeting protocol**
* **Policies, duty to inform, participation rules**
* **Organization topics:**
  + Timeline reminder (slide 16)
  + Motions record: [11-22/0651r25](https://mentor.ieee.org/802.11/dcn/22/11-22-0651-25-00bh-tgbh-motions-list.pptx)
* **Comment Resolution**
  + Comment resolution document: [11-23/1152r20](https://mentor.ieee.org/802.11/dcn/23/11-23-1152-20-00bh-ieee-802-11bh-lb274-comments.xlsx)
  + Comment topics list (slide 17)
  + Comment resolution queue (slide 18)
* **Discussion on response to WBA liaisons (was due Sept):** [**11-21/0703r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0703-00-0000-2021-april-liaison-from-wba.docx)**,** [**11-21/1141r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-1141-00-00bh-excerpts-of-wba-document-wi-fi-id-scope.pptx)**,** [**11-22/0668r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0668-00-0000-liaison-statement-from-wba-re-wi-fi-devices-identification-group.pdf)**,** [**11-22/0653r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0653-00-0000-2022-march-wba-whitepaper-re-device-identification.pdf)
  + [11-23/0888r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0888-00-00bh-wba-liaison-discussion.pptx) Stephen Orr

The agenda, with comment resolution submission updates acknowledged, was approved with unanimous consent.

1. **Timeline Review**

Hopefully, we will be able to wrap up comment resolution in time for a recirculation ballot by November, if not earlier. We still appear to be on track.

1. **CR for CIDs in subclause 9**

Comments from Letter Ballot 274 are found in [11-23/1152r20](https://mentor.ieee.org/802.11/dcn/23/11-23-1152-20-00bh-ieee-802-11bh-lb274-comments.xlsx).

Jay Yang (ZTE) presented [11-23/1369r01](https://mentor.ieee.org/802.11/dcn/23/11-23-1369-01-00bh-cr-for-cids-in-subclause-9.docx), which offers resolutions to comment identifiers (CIDs) 30, 48, 90, 120, 143, 159, 162, 163, 258, 276, 290, and 291. CIDs 30, 120, 163, and 258 are resolved by deleting the word “determined” before “MAC address” as determined is not otherwise used to describe a MAC address. Yang suggests rejecting CID 48 as there’s no foreseen need to reserve the value of 0. CID 90 is also rejected, which requested changing an RSNXE item to a capability. CID 143, which requests clarification of whether the Device ID element is included in the Reassociation request/response for FILS mode, is accepted in principle. CID 159 is rejected as it is a question, not a request to make a change in the text. However, it would be good to include a pointer in the CID response to indicate where in the specification text the answer is found. More work is needed on this resolution, so it’s deferred for later. CID 162 asks for a clarification about a non-AP STA sending a Device ID to a non-AP STA. If he is willing, this CID will be handed off to Okan Mutgan (Nokia), since it seems to be related to CIDs he is handling on peer-to-peer communications. CID 276 notes that dot11DeviceID from the MIB is not referenced in the body text of the specification. This is rectified by referring to that MIB variable in subclause 12.2.11.1, similarly to what was done for CID 72 in [11-23/1316r09](https://mentor.ieee.org/802.11/dcn/23/11-23-1316-09-00bh-cr-for-cids-relevant-to-device-id-part-1.docx). CIDs 290 and 291 propose changing the Device ID and IRM element formats respectively, by replacing the Device ID Status field with a Device ID Control field that contains a Device ID Status subfield with a length of 3 bits, and similarly for the IRM Status field. Yang prefers to reject both as there’s no obvious need to reduce the length from 8 bits to 3 bits, which in any case isn’t octet aligned as seems to be preferred. The revised state of Yang’s resolutions is found in [11-23/1369r02](https://mentor.ieee.org/802.11/dcn/23/11-23-1369-02-00bh-cr-for-cids-in-subclause-9.docx).

1. **Annex A CIDs**

Dan Harkins offered resolutions to Annex A CIDs in [11-23/1500r00](https://mentor.ieee.org/802.11/dcn/23/11-23-1500-00-00bh-resolving-some-annex-ad-cids.docx). CID 76, which would better explain the purpose of the annex, ought to be accepted. CID 130 (change “tweak” to “ciphertext”) and the related CID 261 are better resolved by defining tweak instead. Tweaking is allowed to be done with random octet padding rather than only zero octets. CID 262 is accepted as it amends an incorrect reference from a non-existent Appendix J.5 to the existing Annex J.5. The revised resolutions are found in [11-23/1500r01](https://mentor.ieee.org/802.11/dcn/23/11-23-1500-01-00bh-resolving-some-annex-ad-cids.docx).

1. **Use Case 4.8/randomized probes (CIDs 20, 89, 98)**

Yang returned with the revised [11-23/1314r04](https://mentor.ieee.org/802.11/dcn/23/11-23-1314-04-00bh-cr-for-use-case-4-8.docx), which has been updated based on previous discussion. While CIDs 20 and 89 are both accepted in principle, CID 98 needs additional thought and remains deferred. For CIDs 20 and 89, the group hammered out changes to the proposed resolution text in subclause 11.10.9.1.1. These changes appeared acceptable to the group.

1. **Numerous CIDs/topics (mostly Device ID)**

Yang continued with resolutions found in [11-23/1316r09](https://mentor.ieee.org/802.11/dcn/23/11-23-1316-09-00bh-cr-for-cids-relevant-to-device-id-part-1.docx). He picked up at CID 248. CIDs 1, 83, 174, and 246 share their resolution with CID 248. There were no objections to the eventual text to resolve CID 248. Yang’s resolution for CID 247, with minor wordsmithing, was also deemed satisfactory. The resolution also applies to CIDs 13, 236, 237, and 238. CID 177 (how to send a zero-length device ID) is resolved by rewriting lines 9 and 10 on page 31 to indicate that when it is zero-length, the Device ID field is not included, and the Device ID Status field is set to 0. The language was reworked to match IEEE 802.11 conventions without changing Yang’s intent. CID 253 also shares this resolution. CID 72 requests clarification of the relationship between dot11DeviceIDActivated (a MIB object) and the Device ID Active field. This is done by referring to the MIB object. This CID needs further thought to ensure it aligns with other related CIDs. CID 145 asks that “may” be substituted for “can”, which is a reasonable request. CID 176 requests removal of quotation marks around an enum tag value, which is also reasonable. Fixes to the text in this area are also found in CIDs 180, 226, and 255. All of the resolutions were deemed acceptable. CID 171 needs further thinking as it affects text that already needs more consideration. CID 24 is suggested for rejection. CID 178 asks for clarification about which address is bound on page 31, line 22 (subclause 12.2.11.1) and what it is bound to. Yang asked for the group’s input to generate a resolution. There wasn’t time to find suitable language, so this CID will be dealt with in a future teleconference.

**Meeting adjourned at 11:30 a.m. EDT**

**Attendance**

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| Breakout | Timestamp | Name | Affiliation |
| TGbh | 09/26 | Ansley, Carol | Cox Communications |
| TGbh | 09/26 | Bredewoud, Albert | Broadcom |
| TGbh | 09/26 | Cain, Carl | USDOT, Noblis |
| TGbh | 09/26 | Cao, Bo | ZTE |
| TGbh | 09/26 | De la Oliva, Antonio | InterDigital |
| TGbh | 09/26 | Hamilton, Mark | Ruckus/CommScope |
| TGbh | 09/26 | Harkins, Dan | HPE |
| TGbh | 09/26 | Henry, Jerome | Cisco |
| TGbh | 09/26 | Kneckt, Jarkko | Apple |
| TGbh | 09/26 | Levy, Joseph | InterDigital |
| TGbh | 09/26 | Li, Yan | ZTE |
| TGbh | 09/26 | Luo, Hui | Infineon |
| TGbh | 09/26 | McCann, Stephen | Huawei |
| TGbh | 09/26 | Montemurro, Mike | Huawei |
| TGbh | 09/26 | Orr, Stephen | Cisco |
| TGbh | 09/26 | Patwardhan, Gaurav | HPE |
| TGbh | 09/26 | Qian, Yurong | ZTE |
| TGbh | 09/26 | Sam, Harvey | Broadcom Corporation |
| TGbh | 09/26 | Sevin, Julien | Canon |
| TGbh | 09/26 | Smith, Luther | CableLabs |
| TGbh | 09/26 | Thakur, Sid | Apple |
| TGbh | 09/26 | Yang, Jay | Nokia |
| TGbh | 09/26 | Yee, Peter | NSA-CSD |