IEEE P802.11  
Wireless LANs

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | LB 275 CR for CID 19352 on NDPA frame format | | | | | | Date: 2023-10-10 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Mahmoud Kamel | InterDigital |  |  | mahmoud.kamel@interdigital.com | | Hanqing Lou | InterDigital |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for CID 19352 in subclause 9.3.1.19 in P802.11be D4.0:

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version

R1: Editorial changes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 19352 | 9.3.1.19.4 | 152.64 | Inconsistent treatment of extra 0s in Feedback Bitmap. At P152L54, the bitmap is fully populated "The Feedback Bitmap subfield indicates the request of each resolution bandwidth from the lowest frequency to the highest frequency", but at P152L64, P153 L4&L10 these bits are reserved but in Table 9-42f at P153L48, these bits are set to specific values (i.e., 0) rather than being reserved. So are these bits reserved or assigned? Furthermore writing of para at P152L52 can be improved since a) two fields are described in hte same para, "the request" but no prior request, "request of each res BW" reads oddly, ; example re B1 is weaker than it needs to be, B! doesn't indicate the lowest res BW (it indicates if feedback was requested for that res BW), no mention of trailing zeros. | At P152L52, try "The Resolution subfield in the Partial BW Info subfield indicates the resolution bandwidth for each bit in the Feedback Bitmap subfield. <new para> The Feedback Bitmap subfield lists whether feedback is requested for each resolution bandwidth and is ordered from lowest frequency to highest frequency, followed by zeros. A bit in the Feedback Bitmap subfield set 1 indicates that feedback is requested for the corresponding resolution bandwidth; and so B1 set to 1 indicates a request for feedback for the lowest resolution bandwidth." Following Table 9-42f, at P152L64, P153L4, P153L10 delete "are reserved and" (since these bits are just being set to 0 ... if we want them to be reserved then they should be marked as reserved in table 9-42f rather than be set to 0) | **Revise**  The suggestions to reorganize the text and improve the readability is adopted with some minor changes and the changes have been made accordingly.  TGbe editor: please incorporate changes shown in 11-23/1739r1 below under the tag (#19352). |

***TGbe editor: please make the following change in subclause 9.3.1.19.4, P154L52 in 11be D4.1***

The Resolution subfield in the Partial BW Info subfield indicates the resolution bandwidth for each bit in the Feedback Bitmap subfield.

The Feedback Bitmap subfield indicates whether feedback is requested for each resolution band­width and is ordered from lowest frequency to highest frequency, followed by zeros. A bit in the Feedback Bitmap subfield is set to 1 indicates that feedback is requested for the corresponding frequency with the resolution bandwidth; and so B1 set to 1 indicates a request for feedback for the lowest frequency at the indicated resolution bandwidth (#19352).

When the bandwidth of the PPDU carrying the EHT NDP Announcement frame is less than 320 MHz, the Resolution bit B0 is set to 0 to indicate a resolution of 20 MHz.

* When the bandwidth of the PPDU carrying the EHT NDP Announcement frame is equal to 20 MHz, B1 is set to 1 to indicate the request of feedback on the 242-tone RU. B2–B8 are (#19352) set to 0.
* When the bandwidth of the PPDU carrying the EHT NDP Announcement frame is equal to 40 MHz, B1 and B2 indicate the request of feedback on each of the two 242-tone RUs from lower frequency to higher frequency. B3–B8 are (#19352) set to 0.
* When the bandwidth of the PPDU carrying the EHT NDP Announcement frame is equal to 80 MHz, if B1–B4 are all set to 1, it indicates the feedback request on the 996-tone RU, otherwise, B1–B4 indicate the request of feedback on each of the four 242-tone RUs from lower frequency to higher frequency. B5–B8 are (#19352) set to 0.