IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LB286 Comment Resolutions for CIDs part 2 | | | | |
| Date: 2024-05-07 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Ali Raissinia | Qualcomm Inc. |  |  | alirezar@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document provides LB279 comment resolutions to CIDs in section 11 based on **11bkD2.0, 11beD5.0, and REVmeD5.0 references**. The CIDs including 49, 67, 69, 73, 74, 85, 90, 100, 102, 123, 124, 128 and 131 (13 total).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 49 |  | 0.00 | Change formats of following "labels" to be italic  RSTA assigned I2R Rep RSTA assigned R2I Rep RSTA assigned I2R STS â¤ 80 RSTA assigned R2I STS â¤ 80 RSTA assigned I2R LTF Total RSTA assigned R2I LTF Total  320 MHz RSTA assigned I2R Rep 320 MHz RSTA assigned R2I Rep 320 MHz RSTA assigned I2R Nss 320 MHz RSTA assigned R2I Nss 320 MHz RSTA assigned I2R LTF Total 320 MHz RSTA assigned R2I LTF Total  RSTA assigned Max Bandwidth  Also, need to change 'labels" associated with 11az that use "Assigned" to be "assigned" to and if needed to be italic. | As per comment | Accept  TGbk editor checks with the baseline editor and correct as needed. |
| 67 |  | 0.00 | "TF" is not defined | Fix at 38.5, 39.17/24, 47.18 | Revise  <https://mentor.ieee.org/802.11/dcn/24/11-24-0788-00-00bk-lb286-comment-resolution-for-cids-part-2-11.docx> |
| 69 |  | 0.00 | The TF names are still not consistent. I find:  Passive Sounding Ranging Trigger frame Passive TB Ranging Ranging Trigger frame Poll Ranging Trigger frame Ranging Secure Sounding Trigger frame Ranging Sounding Trigger frame Ranging Trigger frame [nothing before that] Report Ranging Trigger frame Secure Sounding Ranging Trigger frame Sounding Ranging Trigger frame Sounding Trigger frame  As far as I can tell from Table 9-56, only the following are valid:  Poll Ranging Trigger frame Sounding Ranging Trigger frame Secure Sounding Ranging Trigger frame Report Ranging Trigger frame Passive Sounding Ranging Trigger frame  and so the following are wrong, since the 802.11 editorial rule is to have one name and only one name for any given frame:  Passive TB Ranging Ranging Trigger frame Ranging Secure Sounding Trigger frame Ranging Sounding Trigger frame Sounding Trigger frame | As it says in the comment |  |
| 73 |  | 0.00 | The whole "number of [HE-]LTF [repetitions]" thing seems inconsistent. In some locations HE- has been deleted, but in others not (e.g. 17.7, 22.34 (and maybe also 35 and 36 -- cf. 41.16), 26.3/6/8) | As it says in the comment | Revise  <https://mentor.ieee.org/802.11/dcn/24/11-24-0788-00-00bk-lb286-comment-resolution-for-cids-part-2-11.docx> |
| 74 |  | 0.00 | Under CID 1214 the Editor was to "Find all occurances of "Number Of HE-LTF Symbols And Midamble Periodicity subfield" and delete HE, and in occurances from the baseline, and delete HE from HE-LTF occurances in the 11bk draft and baseline." but it's not clear this has happened | As it says in the comment | Reject  The “Number Of HE-LTF Symbols And Midamble Periodicity” is a subfield name and cannot be changed (see Figure 9-90a) |
| 85 |  | 0.00 | I can find definitions for the following:  RSTA assigned I2R Rep RSTA assigned Max Bandwidth 160 MHz RSTA assigned R2I STS 160 MHz RSTA assigned I2R STS 320 MHz RSTA assigned R2I Rep 320 MHz RSTA assigned I2R Rep 320 MHz RSTA assigned R2I LTF Total 320 MHz RSTA assigned I2R LTF Total  but there's a zoo of other undefined forms that are used too:  35.19 "RSTA assigned R2I Rep" (no preceding "320 MHz ") 41.4 "RSTA assigned I2R STS â¤ 80 MHz" (undefined), also 41.31 41.7 "320 MHz RSTA assigned I2R NSS" (undefined) 41.19 "RSTA assigned I2R LTF Total" (no preceding "320 MHz ") 41.34 "160 MHz RSTA assigned R2I STS" (undefined) 41.39 "RSTA assigned R2I Rep" (undefined) millions on page 51 | As it says in the comment | Revise  Instruction to TGbk editor: Add space between 320 and MHz in P33L3.  All other ones are defined in the baseline spec (i.e., REVme 5.0) as it was integrated with 11az specification |
| 90 |  | 0.00 | Per the rejection of CID 1257, "timestamps" without qualifiers is to be used | Delete "TOD/TOA" before "timestamps" at 47.27, | Revise  <https://mentor.ieee.org/802.11/dcn/24/11-24-0788-00-00bk-lb286-comment-resolution-for-cids-part-2-11.docx> |
| 100 |  | 0.00 | Having material that is both underlined and struck through is confusing | Clarify the interpretation of such material, or remove the underline (just leave the strikethrough), assuming this is indeed material in the baseline | Reject  TGbk editor checks with the baseline editor and correct as needed. |
| 102 |  | 0.00 | Some CID tags are missing, which makes it hard to find changes (e.g. #1289) | Make sure CID tags are present for all non-REJECTED CIDs | Revise  <https://mentor.ieee.org/802.11/dcn/24/11-24-0788-00-00bk-lb286-comment-resolution-for-cids-part-2-11.docx> |
| 123 |  | 0.00 | We are not allowed (per extensive REVme discussions) to rename fields. CID 1182’s resolution says it would make sense to do so, and I might agree, but the 802.11 policy is the 802.11 policy | Revert the changes in Figure 9-1048—Secure HE-LTF Parameters element format | Reject  The proposed change is to change the baseline naming to Secure LTF Parameters element so it seems appropriate |
| 124 |  | 0.00 | "occurrance" is misspelt | Change to "occurrence" | Accept    There are two instances of “occurrance” P62L2 and P67L2 |
| 128 |  | 0.00 | It was agreed in REVme that the distinction between fields and subfields is spurious and should not be continued | Delete all "sub"s in "subfield" | Reject  11bk editor has already made changes to all new ‘fields’ related to 11bk and all previous ‘field’ should be fixed by baseline editor. |
| 131 |  | 0.00 | For some reason (Word?) the line numbers are considered part of the text, so searching for multi-word strings fails if the string happens to fall across two lines | Use the same PDF generator as for e.g. 11me | Reject  11bk task group suggest the topic to be addressed in the baseline editor’s meeting. |

*Resolution for CID 67*

*TGbk editor: Change the text on P38L3-5 as follows:*

If required, an ISTA shall transmit any FTMR frames outside of Availability Windows allocated to itself. Inside Availability Windows allocated to itself, an ISTA shall not transmit any frame except when assigned UL resources by a ~~TF~~ Ranging Trigger frames (#67)transmitted by the RSTA.

*TGbk editor: Change the text on P39L13-30 as follows:*

If the available bandwidth does not allow for the polling of all ISTAs assigned to this availability window using a single TF Ranging Poll frame, the RSTA shall attempt to schedule one or more extra polling/sounding/reporting triplets within the availability window. The RSTA shall indicate the extra polling/sounding/reporting triplets by setting the More TF subfield in the Common Info field to 1 and the RA field to the broadcast address in the TF Ranging Poll frame, and in ~~TFs~~ Ranging Trigger frames (#67) in subsequent Polling, Measurement Sounding and Measurement Reporting phases in the same availability window. If the RSTA had set the More TF subfield to 1 in the preceding Ranging Trigger frame, and if there are no additional polling/sounding/reporting triplets in the same availability window, the RSTA shall set the More TF subfield in the Common Info field to 0 and the RA field to the broadcast address in the next Ranging Trigger frame within that availability window. On receipt of such a frame, an ISTA that has not been addressed by a User Info field in the ~~TF~~ Ranging Trigger frame (#67), may enter doze state, if no other condition requires this STA to remain awake. Any extra polling/sounding/reporting triplets can either be transmitted in the same TXOP: see example in Figure 11-48 (TB ranging availability window with two instances of polling/sounding/reporting triplets within a single TXOP); or a new TXOP, see example in Figure 11-49 (TB ranging availability window with two instances of polling/sounding/reporting triplets in separate TXOPs) depending on the maximum allowed TXOP duration and the predicted length of the extra instances of polling/sounding/reporting triplets.

*TGbk editor: Change the text on P47L14-21 as follows:*

A TB ranging measurement reporting phase including the optional I2R LMR frame is illustrated in Figure 11-54 (TB ranging measurement reporting phase with bidirectional LMR Feedback for n ISTAs). If the I2R LMR was negotiated by one or more ISTAs, then a SIFS time after transmitting out the R2I LMR frame, the RSTA transmits a TF Ranging LMR frame to solicit the I2R LMR frame(s). This TF Ranging LMR frame (#67) shall allocate uplink resources to ISTAs that negotiated an I2R LMR and were allocated resources in the preceding measurement sounding phase. The RSTA shall allocate each RU in the TF Ranging LMR frame to only one ISTA. In response to the TF Ranging LMR frame, each addressed ISTA shall respond by transmitting an I2R LMR frame.

*Resolution for CID 73*

*TGbk editor: Change the text on P22L32-37 as follows:*

NOTE – The UL Length subfield of a Trigger frame is computed using Equation (27-11) (see 26.5.2.2.4) for soliciting HE PPDU and Equation (36-11) (see 35.5.2.2.4) for soliciting EHT PPDU, which is based on the TXTIME computed in 27.4.3 for HE PPDU and 36.4.3 for EHT PPDU. In case of Sounding Ranging Trigger frame, the resulting UL Length value is equivalent to 13+6‧*NLTF\_REPN~~HE-~~LTF*, where *NLTF-REP* is the number of HE-LTF repetitions or EHT-LTF repetitions (given by the I2R Rep subfield value plus 1) and *N~~HE-~~LTF* is the number of ~~HE-~~LTF symbols (given by the Number Of HE-LTF Symbols And Midamble Periodicity subfield), see Figure 9-91~~0a~~ (HE variant Common Info field format); or is the Number Of HE/EHT-LTF Symbols subfield, see Figure 9-9087b (EHT variant Common Info field format)). (#**1041**) (#73)

*TGbk editor: Change the text on P41L14-20 as follows:*

(#**1059**) The product of the number of LTF repetitions, indicated in ~~each of~~ the I2R Rep subfields of the User Info fields, and the number of ~~HE-~~LTF symbols, indicated in the Number Of ~~HE-~~HE-LTF (#73) Symbols And Midamble Periodicity subfield or the Number Of HE/EHT-LTF Symbols subfield in the Common Info field, shall not exceed the assigned value *~~RSTA Assigned I2R LTF Total~~* for any of the triggered ISTA ~~triggered by this Trigger frame~~; i.e., the RSTA assigned I2R LTF Total if the sounding bandwidth is less than 320 MHz or the 320 MHz RSTA assigned I2R LTF Total otherwise.(#**1163**, #**1124**)

*Resolution for CID 90*

*TGbk editor: Change the text on P47L26-28 as follows:*

For delayed reporting, the first instance of the R2I LMR and the optional I2R LMR do not have valid ~~TOA/TOD~~ (#90)timestamps to include, in this case the RSTA and the ISTA shall set the Invalid Measurement subfield in the TOA Error field of the respective LMR frame to 1.

*Resolution for CID 102*

*TGbk editor: Change the text on P79L6-12 as follows:*

An RSTA receiving an HE Ranging NDP or an EHT Ranging NDP solicited by a Passive Sounding Ranging Trigger frame, shall set the TXVECTOR parameter CH\_BANDWIDTH to be the same value as the UL BW subfield of the Common Info field in the Passive Sounding Ranging Trigger frame transmitted at bandwidth less than or equal to 160 MHz, to initiate a transmission of a Ranging NDP Announcement frame and an HE/EHT Ranging NDP. In the case the bandwidth of the soliciting Passive Sounding Ranging Trigger frame is equal to 320 MHz, the RSTA shall set the TXVECTOR parameter CH\_BANDWIDTH to CBW320. (#1289, #102)

**References: 11bkD2.0, 11beD5.0, and REVmeD5.0**