IEEE P802.11  
Wireless LANs

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| Comment Resolution LB253 Parameters – CID 5377 | | | | |
| Date: 2021-05-31 | | | | |
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Abstract

This submission proposes the comment resolution of CID 5377; as part of LB253, changes are relative to Draft 3.1

Revisions:

1. Fix hyper link in resolution box, change to Draft 3.1
2. Feedback from presentation

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGaz Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGaz Editor: Editing instructions preceded by “TGaz Editor” are instructions to the TGaz editor to modify existing material in the TGaz draft. As a result of adopting the changes, the TGaz editor will execute the instructions rather than copy them to the TGaz Draft.***

**The text preceded by “Discussion” is not part of the adopted changes.**

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| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| **5377** | 46.15 | 9.3.1.22.1 | Definition of UL Target RSSI = 127 should be changed because secure LTF supports 64-QAM | as in comment | **Revised**  TGaz editor, make changes depicted in  https://mentor.ieee.org/802.11/dcn/21/11-21-0911-02-00az-comment-resolution-lb253-cid-5377.docx |
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**Discussion:**

Seems the table is out of date relative to P802.11ax\_D8.0, update and then try to address the comment. Also update other figures.

What should be the maximum Tx power for HE TB PPDU’s that use secure HE-LTFs (64-QAM)? I suggest HE-MCS 5 or 5 (lowest HE-MCS with 64-QAM)

**9.3.1.22.1 General**

TGaz Editor: Change the label of Table 9-29j on page 46 as follows

1. Table 9-29j—UL Target Receive Power subfield in Trigger frame *(#1615, #5005)*

|  |  |
| --- | --- |
| **UL Target Receive Power subfield** | **Description** |
| 0–90 | The expected receive signal power, in units of dBm, is *Targetpwr* = –110 + *Fval*, where *Fval* is the subfield value |
| 91–126 | Reserved |
| 127 | The STA transmits the HE TB PPDU at the STA’s maximum transmit power for the assigned HE-MCS.  If the Trigger frame is a Ranging Trigger frame with Sounding or Passive Sounding subvariant that do not assign an HE-MCS, the assigned HE-MCS is assumed to be HE-MCS 0 in terms of setting the STA’s transmit power.  If the Trigger frame is a Ranging Trigger frame with Secured Sounding subvariant that does not assign an HE-MCS, the assigned HE-MCS is assumed to be HE-MCS 6 in terms of setting the STA’s transmit power.  NOTE—The expected receive signal power is then the STA's maximum transmit power for the assigned HE-MCS minus the path loss. |

TGaz Editor: Change Figure 9-64lc on page 48 and following pragraphs as follows

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B11 | B12 B19 | B20 | B21 B24 | B25 | B26 B31 | B32 B38 | B39 |
|  | AID12/RSID12 | RU Allocation | UL FEC Coding Type | UL HE-MCS | UL DCM | SS Allocation/ RA-RU Information | UL Target Receive Power | Reserved |
| Bits: | 12 | 8 | 1 | 4 | 1 | 6 | 7 | 1 |

1. Figure 9-64lc—User Info field for Ranging Trigger frame of subvariant Poll and Report *(#*2048, #2263, #2260, #1391, #1947, #3355).

The format of the User Info field in the Ranging Trigger frame of Poll and Report subvariants is defined in Figure [9-64lc](file:///C:\Users\nxf57284\Documents\IEEE\210606-Draft%20P802.11az_D3.1%20(Until%201st%20May)%20For%20CB%20only).docx#F09o64lc) (User Info field for Ranging Trigger frame of subvariant Poll and Report). The format of the User Info field in the Ranging Trigger frame of Sounding and Secured Sounding subvariants is defined in Figure [9-64ld](file:///C:\Users\nxf57284\Documents\IEEE\210606-Draft%20P802.11az_D3.1%20(Until%201st%20May)%20For%20CB%20only).docx#F09o64ld) (User Info field for Sounding subvariant), and Figure [9-64le](file:///C:\Users\nxf57284\Documents\IEEE\210606-Draft%20P802.11az_D3.1%20(Until%201st%20May)%20For%20CB%20only).docx#F09o64le) (User Info field for Secured Sounding subvariant) respectively (#**2048**, #**1391***)*.The AID12/RSID12 subfield carries either the 12 LSBs of the AID for an associated ISTA or the 12 LSBs of the RSID for an unassociated ISTA.

The UL Target Receive Power subfield is identical to the corresponding subfield in the Basic Trigger frame; see [9.3.1.22](file:///C:\Users\nxf57284\Documents\IEEE\210606-Draft%20P802.11az_D3.1%20(Until%201st%20May)%20For%20CB%20only).docx#H09o3o1o22) (Trigger Frame format.) (#**1615**)

(#**1888**) The Token field is reserved in Ranging Trigger other than TF Ranging Poll. In a TF Ranging Poll, the Token field is used to match the TF Ranging Poll with the partial TSF time in Ranging NDP Announcement frame.

9.3.1.22.10.1 Poll subvariant *(#2048, #1391,* #1707)

The Trigger Dependent User Info subfield is not present in the Poll subvariant of the Ranging Trigger frame.

9.3.1.22.10.2 Sounding subvariant (#1707)

The Trigger Dependent User Info subfield is not present in the Sounding subvariant of the Ranging Trigger frame (#**2048**, #**2421**, #**2261**, #**1394**, #**1393**, #**1391**).

TGaz Editor: Change Figure 9-64ld on page 49 and following paragraphs as follows

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B11 | B12 B20 | B21 B23 | B24 B25 | B26 B31 | B32 B38 | B39 |
|  | AID12/RSID12 | Reserved | I2R Rep | Reserved | SS Allocation/ RA-RU Information | UL Target Receive Power | Reserved |
| Bits | 12 | 9 | 3 | 2 | 6 | 7 | 1 |

1. Figure 9-64ld—User Info field for Sounding subvariant *(#2048, #*2421, #2261, #1394, #1393, #1391, #1947)

The I2R Rep subfield signals the number of repetitions N\_REP of the HE LTF symbols in the corresponding HE TB Ranging NDP from the STA indicated in the AID12/RSID12 subfield (#**1116**, #**1584**). The value of the I2R Rep subfield is the same in all User Info fields in the Trigger frame.

The SS Allocation/RA-RU Information and UL Target Receive Power subfields are identical to the corresponding subfields in the Basic Trigger frame;see [9.3.1.22](#H09o3o1o22) (Trigger Frame format). (#**3827**)

9.3.1.22.10.3 Secured Sounding subvariant (#1707, #1389, #1958)

TGaz Editor: Change Figure 9-64le on page 49 and following paragraphs as follows

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B11 | B12 B20 | B21 B23 | B24 B25 | B26 B31 | B32 B38 | B39 | B40 B55 |
|  | AID12/RSID12 | Reserved | I2R Rep | Reserved | SS Allocation/ RA-RU Information | UL Target Receive Power | Reserved | Trigger Dependent User Info (SAC) |
| Bits: | 12 | 9 | 3 | 2 | 6 | 7 | 1 | 16 |

1. Figure 9-64le—User Info field for Secured Sounding subvariant (#1391, #1947)

The I2R Rep subfield signals the number of repetitions of the HE LTF symbols in the corresponding HE TB Ranging from the STA indicated in the AID12/RSID12 subfield (#**1583**). The SS Allocation/RA-RU Information and UL Target Receive Power subfields are identical to the corresponding subfields in the Basic Trigger frame;see [9.3.1.22](#H09o3o1o22) (Trigger Frame format).

The Trigger Dependent User Info subfield is present in the Ranging Trigger frame of Secured Sounding subvariant. The Trigger Dependent User Info subfield carries the Security Authentication Code (SAC) field. The SAC field provides the authentication information for the LTF Sequence Generation information used for of the I2R sounding associated with the measurement instance; see [11.21.6.4.5](#H11o21o6o4o5) (Transmission of a ranging NDP). The length of this subfield is 16 bits. (#**2262**)

NOTE—For secure ranging, the I2R Rep is set to the RSTA Assigned I2R Rep; see [11.21.6.3](#H11o21o6o3) (Fine Timing Measurement procedure negotiation). (#**1958**)