IEEE P802.11
Wireless LANs

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| LB266 CR for EHT TRS Part II |
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 Abstract

This submission proposes resolutions for following 13 CIDs received for TGbe LB266:

10968 10969 12117 12239 12240 12241 13046 13534 13537 13538

13720 13721 12116

Revisions:

* Rev 0: Initial version of the document.

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 TGbe Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 10968 | Yanjun Sun | 123.38 | 9.2.4.7.1 | We need to refer to the latest subclauses for RU Allocation decoding: instead of 9.3.1.22.1, please use 9.3.1.22.3 and 9.3.1.22.4. | As in comment | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 10968. |
| 12240 | Stephen McCann | 123.37 | 9.2.4.7.1 | The sentence does not read very well. | Change the initial part of the sentence to "The RU Allocation subfield indicates the resource unit (RU) assigned for transmitting either the HE TB PPDU or EHT TB PPDU response..." | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 12240. |
| 13537 | Jian Yu | 123.38 | 9.2.4.7.1 | For EHT TB PPDU, it could be assigned RU or MRU | Add or MRU after RU | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 13537. |
| 13534 | Jian Yu | 123.38 | 9.2.4.7.1 | Clarify for EHT TB PPDU, the RU allocation subfield needs to be combined with PS160 to indicate the exact RU/MRU. | As in comment | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 13534. |
| 13538 | Jian Yu | 124.23 | 9.2.4.7.1 | Add or EHT TB PPDU after HE TB PPDU | As in comment | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 13538. |
| 10969 | Yanjun Sun | 124.22 | 9.2.4.7.1 | We need delete "HE", as the second half of the NOTE covers EHT TB PPDU as well. | As in comment | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 13538. |
| 13721 | Yunbo Li | 124.23 | 9.2.4.7.1 | "HE TB PPDU" --> "TB PPDU" | Change "HE TB PPDU" to "TB PPDU" | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 13538. |
| 12117 | JINYOUNG CHUN | 123.08 | 9.2.4.7.1 | Chang'e' | add 'e' after 'Chang' | Accepted. |
| 12239 | Stephen McCann | 123.34 | 9.2.4.7.1 | The sentence does not read very well. | Change the initial part of the sentence to "The UL Data Symbols subfield indicates the number of OFDM symbols in the Data field of either the HE TB PPDU or EHT TB PPDU response..." | Revised-Agree with the commenter.TGbe Editor:Please implement the changes as shown in this document tagged as 12239. |
| 12241 | Stephen McCann | 124.34 | 9.2.4.7.1 | The editor instruction appears to be missing for this new sub-clause. | Add the following text at the cited location "Insert the following new subclause at the end of subclause 9.2.4.7.7" | Rejected.The cited location is not a new paragraph. |
| 13046 | Huizhao Wang | 124.32 | 9.2.4.7.1 | Any particular reason MCS 2 is excluded | Please provide explanation | Rejected.The commenter was asking a question rather than pointing out an issue.To clarify, DCM will be applied to the HE TB PPDU if DCM is applied to the HE MU PPDU carrying TRS control subfield. In order for EHT TB PPDU to have a similar transmission range as HE TB PPDU in a response to TRS control subfield, EHT-MCS 15 should be one of the MCSs. Hence, we exclude MCS 2, which is exactly the same as EHT-SIG MCSs. |
| 13720 | Yunbo Li | 123.32 | 9.2.4.7.1 | "not an HE PPDU nor an EHT PPDU" --> "neither an HE PPDU nor an EHT PPDU" | Change "not an HE PPDU nor an EHT PPDU" to "neither an HE PPDU nor an EHT PPDU" | Accepted. |
| 12116 | JINYOUNG CHUN | 123.01 | 9.2.4.7 | 9.2.4.7.1 TRS Control is not new subclause. The location of the instruction is wrong. | Move the instruction 'Insert the following new subclause after 9.2.4.7.7 (CAS Control)' right before the subclause 9.2.4.7.8 | Revised-This issue has already been addressed in P802.11be\_D2.2 tagged as #10205.Note to the TGbe Editor:Please make the same change as in P802.11be\_D2.2 tagged as #10205. |

***TGbe editor: Please note baselines are Draft P802.11be\_D2.2 and REVme D1.3***

**9.2.4.7.1 TRS Control**

***Chang the first four paragraphs and Figure 9-26 (Control Information subfield format in a
TRS Control subfield) as follows:***

The Control Information subfield in a TRS Control subfield contains triggered response scheduling (TRS)
information for soliciting an HE TB PPDU that follows an HE MU PPDU, HE SU PPDU, or HE ER SU
PPDU carrying the Control subfield (see 26.5.2.2 (Rules for soliciting UL MU frames)) or for soliciting an
EHT TB PPDU that follows an EHT MU PPDU carrying the Control subfield (see 35.5.2.2 (Rules for
soliciting UL MU frames). See 26.5.2.4 (A-MPDU contents in an HE TB PPDU) for details on allowed
content in an A-MPDU carried in an HE TB PPDU and in an EHT TB PPDU. The format of the subfield is
shown in Figure 9-26 (Control Information subfield format in a TRS Control subfield).

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| --- | --- | --- | --- | --- | --- | --- |
|  | B0            B4 | B5             B12 | B13          B17 | B18                  B22 | B23      B24 | B25 |
|  | UL Data Symbols | RU Allocation | AP Tx Power | UL Target Receive Power(#24417) | UL MCS | Reserved |
| Bits: | 5 | 8 | 5 | 5 | 2 | 1 |

**Figure 9-26—Control Information subfield format in a TRS Control subfield**

NOTE 1—A TRS Control subfield is not included in a PPDU that is not an HE PPDU nor an EHT PPDU.

The UL Data Symbols subfield indicates the number of OFDM symbols in the Data field of (#12239) either the HE TB PPDU response or EHT TB PPDU response and is set to the number of OFDM symbols minus 1.

The RU Allocation subfield (#12240)either:

* indicates the RU assigned for transmitting the HE TB PPDU response with the encoding defined in (#10968)9.3.1.22.3 (HE variant User Info field), or
* (#13534)together with a PS160 bit determined according to Table 35-2 (PS160 for RU allocation in EHT TRS), indicates the RU (#13537)or MRU assigned for transmitting the EHT TB PPDU response, with the encoding defined in (#10968)9.3.1.22.4 (EHT variant User Info field).

The UL Target Receive Power subfield indicates the expected receive signal power, measured at the AP’s
antenna connector and averaged over the antennas, for the HE portion of the HE TB PPDU or the EHT
portion of the EHT TB PPDU transmitted on the assigned RU as defined in Table 9-28 (UL Target Receive
Power subfield in TRS Control field).

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| **Table 9-28— UL Target Receive Power subfield in TRS Control field** |
| **UL Target Receive Power subfield** | **Description** |
| 0–30 | The expected receive signal power, in units of dBm, is *Targetpwr* = –90 + 2 × *Fval*, where *Fval* is the subfield value |
| 31 | The STA transmits the TB PPDU at the STA’s maximum transmit power for the assigned UL MCS.NOTE—The expected receive signal power is then the STA's maximum transmit power for the assigned UL MCS minus the path loss. |

NOTE 2—A STA might transmit the HE TB PPDU (#13538)or EHT TB PPDU at a transmit power that is below the transmit power needed to achieve the expected receive signal power due to hardware or regulatory limits (see 27.3.15.2 (Power pre-correction) for an HE TB PPDU and 36.3.16.2 (Power pre-correction) for an EHT TB PPDU).

When carried in an HE PPDU, the UL HMCS subfield indicates the HE-MCS, in the range HEMCS 0 to 3, to be used by the receiving STA for the HE TB PPDU is set to the HE-MCS index (see 27.5 (Parameters for HE-MCSs)). When carried in an EHT MU PPDU, the UL MCS subfield indicates the EHT-MCS to be used by the receiving STA for the EHT TB PPDU, and it is set to 0 for EHT-MCS 0, it is set to 1 for EHT-MCS 1, it is set to 2 for EHT-MCS 3, it is set to 3 for EHT-MCS 15.