IEEE P802.11
Wireless LANs

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| LB271 CR for 35.5.2.3.3 |
| Date: March 14, 2023 |
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 Abstract

This submission proposes resolutions for following 5 CIDs received for TGbe LB271:

15247 15252 17027 17028 17235

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** |
| 15247 | JINYOUNG CHUN | 595.21 | 35.5.2.3.3 | The paragraph is not clear to me. Does it mean that If the RXVECTOR parameters EHT\_LTF\_TYPE and GI\_TYPE of EHT MU PPDU, carrying the frame with the TRS Control subfield are either 4x EHT-LTF and 3.2us\_GI or 2x EHT-LTF and 1.6us\_GI. Then the EHT\_LTF\_TYPE and GI\_TYPE parameters are set to 4x EHT-LTF and 3.2us\_GI or 2x EHT-LTF and 1.6us\_GI, respectively? And not 3u2s or 1u6s, but 3.2us or 1.6us. | Clarify the text. | Rejected – The rules for setting the EHT\_LTF\_TYPE and GI\_TYPE parameters are the similar as the rules for setting the HE\_LTF\_TYPE and GI\_TYPE parameters in the baseline (see 26.5.2.3.4 TXVECTOR parameters for HE TB PPDU response to TRS Control subfield in Draft P802.11REVme\_D2.1). The corresponding wording in the baseline is also inherited here. |
| 15252 | JINYOUNG CHUN | 595.19 | 35.5.2.3.3 | The setting of U-SIG Disregards and Validate bits between Trigger frame and TRS Control field are different.(See L36-39 P592 in D3.0 for Trigger frame) | clarify it. | Rejected – The commenter is asking for clarification rather than pointing out an issue.In the case of Trigger frame, the U-SIG Disregards and Validate bits are set to the value in the U-SIG Disregard And Validate subfield in the Special User Info field, but there’s no Special User Info field in the TRS. |
| 17027 | Mark RISON | 594.42 | 35.5.2.3.3 | "The FORMAT parameter is set to EHT\_TB if the RXVECTOR parameter FORMAT of the PPDUcarrying the frame with the TRS Control subfield is equal to EHT\_MU." -- and if the incoming format is not EHT\_MU? | Change to "The FORMAT parameter is set to EHT\_TB." | Rejected – During the previous discussion, the group agrees to use the format of the soliciting PPDU to determine the format of the TB PPDU. The TRS in the EHT MU PPDU solicits the EHT TB PPDU, and the TRS in HE PPDUs (including HE MU PPDU, HE SU PPDU and HE ER SU PPDU) solicits the HE TB PPDU. |
| 17028 | Mark RISON | 594.58 | 35.5.2.3.3 | "soliciting DL EHT PPDU" -- by definition the soliciting is DL | Delete "DL". Ditto at line 62 | Revised – Agree in principle with the commenter.TGbe Editor:Please implement the changes in this document tagged as #17028 |
| 17235 | Sigurd Schelstraete | 595.42 | 35.5.2.3.3 | "the 160 MHz channel with more data tones of the RU or MRU" in Table 35-2 sounds confusing. What is the intention? | Replace with e.g. "the 160 MHz channel containing 2x996 occupied tones" - if that is the intention. | Rejected – The intention is to make the EHT TB PPDU response to be sent on the same 160MHz channel that carries the soliciting frame. However, the RU or MRU carrying the soliciting fame may be wider than 160MHz, in that case, we want the 160MHz channels with more data tones of the RU or MRU that carries the soliciting frame and the EHT TB PPDU response frame are the same. |

**35.5.2.3.3 TXVECTOR parameters for EHT TB PPDU response to TRS Control subfield**

A non-AP STA transmitting an EHT TB PPDU in response to a frame containing a TRS Control subfield
shall set the TXVECTOR parameters as follows:
— The FORMAT parameter is set to EHT\_TB if the RXVECTOR parameter FORMAT of the PPDU
carrying the frame with the TRS Control subfield is equal to EHT\_MU.
— The TRIGGER\_METHOD parameter is set to TRS.
— The L\_LENGTH parameter is computed as described in Equation (27-11) with using the
TXTIME value. The TXTIME is defined by Equation (36-110) where *NSYM* is set to *FVAL* + 1, where
*FVAL* is the value of the UL Data Symbols subfield of the TRS Control subfield.
— The RU\_ALLOCATION parameter is set to the value indicated by the RU Allocation subfield of the
TRS Control subfield and a PS160 bit which is determined based on the RU allocation in the EHT
MU PPDU carrying the TRS control subfield according to Table 35-2 (PS160 for RU allocation in
EHT TRS).
— The MCS parameter is set to the value of the UL MCS subfield of the TRS Control subfield.
— The CH\_BANDWITDTH parameter is set to the value of the RXVECTOR parameter
CH\_BANDWIDTH of the soliciting (#17028) EHT PPDU (see Table 36-1 (TXVECTOR and
RXVECTOR parameters)).
— The BSS\_COLOR parameter is set to the values of the RXVECTOR parameter BSS\_COLOR of the
soliciting (#17028) EHT PPDU.
— The NUM\_EHT\_LTF parameter is set to 1.

— The STARTING\_STS\_NUM parameter is set to 0.
— The NUM\_STS parameter is set to 1.
— The FEC\_CODING parameter is set to BCC\_CODING if the RU Allocation subfield indicates an
RU or MRU that is smaller than a 484-tone RU; otherwise it is set to LDPC\_CODING.
— The LDPC\_EXTRA\_SYMBOL parameter is set to 0 if the RU Allocation subfield indicates an RU
or MRU that is smaller than a 484-tone RU; otherwise it is set to 1.
— The SPATIAL\_REUSE parameter is set to PSR\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED.
— If the received EHT Default PE Duration subfield of the EHT Operation Parameters field in the EHT
Operation element transmitted by the AP with which the non-AP STA is associated is set to 0, the
DEFAULT\_PE\_DURATION parameter is set to the default PE duration value indicated by the AP
in the Default PE Duration subfield of the HE Operation element it transmits; Otherwise, the
DEFAULT\_PE\_DURATION parameter is set to 20 µs.
— The TXOP\_DURATION parameter is set as defined in 26.11.5 (TXOP\_DURATION).
— All U-SIG Disregarded and Validate bits are set to 1.
— If the RXVECTOR parameters EHT\_LTF\_TYPE and GI\_TYPE of EHT MU PPDU, carrying the
frame with the TRS Control subfield are either: 4× EHT-LTF and 3u2s\_GI, respectively; or 2× EHTLTF and 1u6s\_GI, respectively; then the EHT\_LTF\_TYPE and GI\_TYPE parameters are set to 4×
EHT-LTF and 3u2s\_GI, respectively. Otherwise, the EHT\_LTF\_TYPE and GI\_TYPE parameters
are set to 2× EHT-LTF and 1u6s\_GI, respectively.
— The TXPWR\_LEVEL\_INDEX parameter is set to a value based on the computed transmission
power (see 36.3.16.2 (Power pre-correction)) for an EHT TB PPDU, the value of the AP Tx Power
subfield of the TRS Control subfield and the UL Target Receive Power subfield of the TRS Control
subfield.

NOTE—A non-AP STA transmitting an EHT TB PPDU in response to a frame carrying a TRS Control subfield
considers that both the physical CS and the virtual CS are set to 0 (see 35.5.2.4 (UL MU CS mechanism for EHT STAs)).