IEEE P802.11  
Wireless LANs

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| Comment Resolution SA1- TXVECTOR | | | | |
| Date: 2022-05-04 | | | | |
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Abstract

This submission proposes the comment resolution of CIDs; as part of SA1, changes are relative to Draft 4.2.

Revisions:

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** |
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**Discussion:**

**The TXVECTOR changes are not well formatted and have several errors.**

**Resolution:**

27.2.2 TXVECTOR and RXVECTOR parameters

TGaz Editor: Change the following paragraphs on page 79 at line 1 as follows

***Modify Table 27-1 at the row APEP\_LENGTH, and add the following new rows placing them after the last parameter but before the notes in the table:***

1. Table 27-1—TXVECTOR and RXVECTOR parameters (#3629, #5463, #5462, #5148, #5464, #5408, #5434, #5452, #5376, #7081, #7094, #7095, #7096, #7097, #7099 #7101, #7388, #7337, #7339,)

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| Parameter | | Condition | Value | | TXVECTOR | RXVECTOR |
| APEP\_LENGTH | | FORMAT is HE\_SU, or HE\_ER\_SU | Integer  If 0 and FORMAT is HE\_SU, indicates an HE sounding NDP or HE Ranging NDP.  If 0 and FORMAT is HE\_TB, indicates an HE TB Ranging NDP.  Otherwise, indicates the number of octets in the range of 1 to *aPDUMaxLength* in the A-MPDU pre-EOF padding (see Table 27-54) that is carried in the PSDU. | | Y | O |
| FORMAT is HE\_MU or HE\_TB | MU | O |
| Otherwise | See corresponding entry in Table 21-1 or Table 21-1. | |  |  |
| PSDU\_LENGTH | | FORMAT is HE\_SU, HE\_MU, HE\_ER\_SU or HE\_TB  (#3264) | Indicates the number of octets in the PSDU in the range of 0 to *a PSDUMaxLength* octets (see Table 27-54) A value of 0 indicates an HE sounding NDP, HE Ranging NDP, or HE TB Ranging NDP. (#**5461**, #**5212**) | | N | Y |
| Otherwise | See corresponding entry in Table 21-1. (#7338) | | | |
|  | | (…existing fields…) | | | | |
| NUM\_USERS | | FORMAT is HE\_SU and RANGING\_FLAG is present | If SECURE\_LTF\_FLAG is 0, set to 1.  If SECURE\_LTF\_FLAG is 1, indicating the number of users of an HE Ranging NDP with secure HE-LTF. (#**2359**)  If NUM\_USERS is larger than 1, NUM\_STS, LTF\_REP and LTF\_KEY are arrays with number of entries equal to NUM\_USERS (#**7089, #7101**) | | Y | N |
| FORMAT is HE\_SU, HE\_MU, HE\_ER, HE\_ER\_SU or HE\_TB,  and RANGING\_FLAG is not present | Not present.  NOTE—The number of users for an HE SU PPDU, HE ER SU PPDU, or HE TB PPDU is always 1. The number of users in an RU in an HE MU PPDU is determined by  RU\_ALLOCATION and STA\_ID parameters for that RU. | | N | N |
| Otherwise | See corresponding entry in Table 21-1. | |  |  |
|  | | (…existing fields…) | | | | |
| TIME\_OF\_DEPARTURE\_REQUESTED | | Format is HE\_SU or  (HE\_TB and RANGING\_FLAG is present) (#**7105**) | Enumerated type:  True indicates that the MAC entity requests that the PHY entity measures and reports time of departure parameters corresponding to the time when the first frame energy is sent by the transmitting port.  False indicates that the MAC entity requests that the PHY entity neither measures nor reports time of departure parameters. | | O | N |
| Format is HE\_ER\_SU or HE\_MU (#**7105**) | Not present | | N | N |
| Otherwise | See corresponding entry in Table 21-1(TXVECTOR and RXVECTOR parameters). | |  |  |
| LTF\_KEY | | FORMAT is either HE\_SU or HE\_TB and RANGING\_FLAG is present and SECURE\_LTF\_FLAG is 1 | Contains the *rsta-ltf-key* or ista-ltf-key (See [11.21.6.4.5.4](#H11o21o6o4o5o4)) when the secure HE-LTFs are used (see [11.21.6.4.5](#H11o21o6o4o5) ).  (#**2289**, #**1828**, #**1831**) | | Y | N |
| Otherwise | Not present (#**2356**, #**2357**, #**2359**) | | | |
| LTF\_IV | | FORMAT is either HE\_SU or HE\_TB and RANGING\_FLAG is present and SECURE\_LTF\_FLAG is 1 | Contains the *ltf-iv* (See [11.21.6.4.5.4](#H11o21o6o4o5o4)) used to generate the secure HE-LTFs | | Y | N |
| Otherwise | Not present (#**2356**, #**2357**, #**2359**) | | | |
| LTF\_REP | | FORMAT is either HE\_SU or HE\_TB and RANGING\_FLAG is present (#**1298**) | Indicate the number of HE-LTF repetitions.  (#**7338**) | | Y | N |
| Otherwise | Not present (#**2356**, #**2357**, #**2359**) | | | |
| RANGING\_FLAG  (#**2502**, #**5460**, #**7080**) | | FORMAT is HE\_SU | If present, indicates the PPDU is an HE Ranging NDP.  Not present otherwise. | | O | N |
| FORMAT is HE\_TB | If present, indicates the PPDU is an HE TB Ranging NDP.  Not present otherwise. | | O | N |
| Otherwise | Not present. | | N | N |
| SECURE\_LTF\_FLAG | | FORMAT is either HE\_SU or HE\_TB and the RANGING\_FLAG is present. | | | Set to one when the HE Ranging NDP or HE TB Ranging NDP will use secure HE-LTF.  Set to 0 otherwise. | Y | N | |
| Otherwise | | | Not present. | | | |
| TX\_WINDOW\_FLAG | | FORMAT is either HE\_SU or HE\_TB and RANGING\_FLAG is present and SECURE\_LTF\_FLAG is 1 | | | Set to one when the secure HE-LTF of an HE Ranging NDP or HE TB Ranging NDP will use the optional frequency domain Tx window.  Set to 0 otherwise. | Y | N | |
| Otherwise | | | Not present. | | | |