IEEE P802.11
Wireless LANs

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| LB253 Resolution to some CID set7 |
| Date: 2021-07-02 |
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Abstract

Editor instruction based on D3.1

CIDs resolved: 5470, 5472, 5375, 5419

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| 5470 | 238.00 | 27.3.21 | "Transmission of the PHY preamble may start if TIME\_OF\_DEPARTURE\_REQUESTED is false"This does not convey any useful information.Also, "Transmission of the PHY preamble ... shall start immediately if TIME\_OF\_DEPARTURE\_REQUESTED is true".Does this mean we have to transmit even if the channel is busy? | If the intent is to say that transmit even if the channel is busy (which I do not recomment):Change "Transmission of the PHY preamble may start if TIME\_OF\_DEPARTURE\_REQUESTED is false2 and shall start immediately if TIME\_OF\_DEPARTURE\_REQUESTED is true" to"Transmission of the PHY preamble of HE Ranging NDP or HE Ranging TB NDP shall start immediately if TIME\_OF\_DEPARTURE\_REQUESTED is true"If the intent is to still wait for the channel to be idle before transmitting, I don't have suggested text, but the current text seems erroneous. | RejectThe text in question is part of the transmit procedure, related to ranging, and is part of the transmit procedure of most PHY clauses. It is missing from clause 27 and this is fixed by this text. |

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| 5472 | 238.00 | 27.4.3 | What is the TXTIME for HE Ranging NDP and HE Ranging TB NDP? | Define TXTIME for HE Ranging NDP and HE Ranging TB NDP. |  Revise***TGaz Editor:*** *perform changes shown in https://mentor.ieee.org/802.11/dcn/21/11-21-1156-03-00az-lb253-resoluiton-to-cid-set6.docx* |
| 5375 | 238.00 | 27.3.21 | TXTIME computation needs to be updated for repetition case and multi-user Secure HE-DL-NDP case, refer to 27.4.3 section in 11ax draft 8.0 for details | as in comment |  Revise***TGaz Editor:*** *perform changes shown in https://mentor.ieee.org/802.11/dcn/21/11-21-1156-03-00az-lb253-resoluiton-to-cid-set6.docx* |

***TGaz Editor: Insert the following before clause 28 (P247L29)***

**27.4.3 TXTIME and PSDU\_LENGTH calculation**

***Editor: Change the first paragraph after exquaiton (27-136) as follows:***

For an HE sounding NDP, and HE TB feedback NDP, there is no Data field and *NSYM* = 0.

For HE ranging NDP and HE TB ranging NDP, the TXTIME is defined by the following equations:

For the case where the TXVECTOR parameter LTF\_KEY is not present or LTF\_KEY is present and the NUM\_USERS PARAMETERS is equal to 1:

TXTIME = 20 + *T*HE-PREAMBLE + *N*LTF-REP*N*HE-LTF*T*HE-LTF-SYM + *TPE+SignalExtension*

For the case where the TXVECTOR parameter LTF\_KEY is present and the NUM\_USERS PARAMETERS is greater than 1:

$$TXTIME=20+T\_{HE\\_PREAMBLE}+\sum\_{n=1}^{n=NUM\\_USERS}N\_{LTF\\_REP}\left(n\right)N\_{HE-LTF}\left(n\right)T\_{HE-LTF}+T\_{PE}+SignalExtension$$

*NLTF-REP is defined in 27.3.18a*

***TGaz Editor: Throughout the draft, replace N\_HE\_LTF and N\_HE-LTF with NHE-LTF***

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| 5419 | 233.00 | 7 | 27.3.18d | Need to define some detection requirements for Secure HE-LTF. The system security is determined by both Tx and Rx side. Besides defining a Secure HE-LTF, the detection requirements are also important to meet a certain level of security. | Define secure HE-LTF detection requirements |  **Reject**The standard tends not to define Rx requirements except Frame Error Rate (with/without adjacent channels). It is not even clear what is a good Rx performance that can be tested.  |

**References: DraftP802.11az\_D3.1**