IEEE P802.11
Wireless LANs

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| TGba D3.0 Comment Resolutions for Legacy Preamble |
| Date: 2019-07-15 |
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Abstract

This submission proposes resolutions for comments received on Legacy Preamble for WUR in TGba D3.0. The following is the list of CIDs:

* 3125, 3126, 3228, 3325, 3326, 3327, 3381, 3382

***CIDs for Clause 30.3.9.2.1 and 30.3.9.2***

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| **CID** | **Commenter** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3325 | vinod kristem | 30.3.9.2.1 | 151.47 | GI term is missing in Equation (31-4) | Add the GI term "T\_{GI}" in Equation (31-4) and also the description for T\_{GI} below the equation. | Rejected.As LSTF waveform is periodic with period of 0.8us, and T\_{GI}=0.8us. So no need to add T\_{GI} in the equation. |
| 3125 | Jian Yu | 30.3.9.2.2 | 152.23 | T\_(GI,L-LTF) was used in timing-related constants, whilst here T\_(GI,2) is used instead. | Use the same one | Accepted. |

*TGba Editor: Please make the following changes (in red) in Section 30.3.9.2 of D3.0. Please also correct all equation index from (31-x) to (30-x) in Section 30.*

* L-LTF Definition

The time domain representation of the L-LTF field, transmitted on transmit chain , shall be as specified in Equation (-30-5).

*

 (31-5)

 (30-5)

where

 has the value given in Table 21-8 (Tone scaling factor and guard interval duration values for PHY fields).

 is defined as  in Equation (17-8).

 is the GI duration for L-LTF defined in Table 30-3 (Timing-related constants).

Other variables are defined below Equation -(30-4).

***CIDs for Clause 30.3.9.2.3***

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| **CID** | **Commenter** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3326 | vinod kristem | 30.3.9.2.3 | 152.47 | The term "non-HT duplicate PPDU" is not defined in the spec and the corresponding sentence is not required. | Remove the following sentence in second paragraph of 30.3.9.2.3. "In a non-HT duplicate PPDU, the RATE field isdefined in 17.3.4.2 (RATE field) using the L\_DATARATE parameter in the TXVECTOR." | Accepted. |
| 3327 | vinod kristem | 30.3.9.2.3 | 152.47 | The term "non-HT duplicate PPDU" is not defined in the spec and the corresponding sentence is not required. | Remove the following sentence in fourth paragraph of 30.3.9.2.3. "In a non-HT duplicate PPDU, the LENGTH field is defined in 17.3.4.3 (PHY LENGTH field) using the L\_LENGTH parameter in the TXVECTOR." | Accepted. |
| 3126 | Jian Yu | 30.3.9.2.3 | 153.29 | L-SIG here first refers to the one used in VHT without additional 4 tones, and the equation later refers to the L-SIG with additional 4 tones. Need to make the description consistent. According the previous discussion, should be the latter case.  | As in comment | Modified.Agree that the equation and description is incorrect. The correct per-20MHz frequency definition of L-SIG and BPSK-Mark1 and BPSK-Mark2 should be the same as L-SIG in VHT. TGba editor to make the changes shown in 11-19/1232r1.  |
| 3228 | Minyoung Park | 30.3.9.2.3 | 153.31 | The definition of "D\_{k,20}" is incorrect. The values for k= {-28, -27, 27, 28} should be deleted since there are only tone index ranging from -26 to 26 in equation (31-6). | As shown in the comment | Accepted. |
|  3382 | Yongho Seok | 30.3.9.2.3 | 153.31 | According to the Equation (31-6), the sub-carrier indexes are between -26 and 26.In D{k\_20}, remove -27,-28,27, 28 tone values.Such tones are only used for the HE PPDU format detection. | In D{k\_20}, remove -27,-28,27, 28 tone values. | Accepted. |
|  3381 | Yongho Seok | 30.3.9.2.3 | 152.52 | "The L-SIG Length field shall be divisible by 3."Because the value obtained from Equation (21-24) is always multiple of 3, the cited sentence is not necessary. | Remove "The L-SIG Length field shall be divisible by 3." | Accepted. |

*TGba Editor: Please make the following changes (in red) in Section 30.3.9.3 of D3.0.*

* L-SIG Definition

The L-SIG field is used to communicate rate and length information. The structure of the L-SIG field is defined in Figure 17-5 (SIGNAL field bit assignment).

In a WUR PPDU, the RATE field shall be set to the value representing 6 Mb/s in the 20 MHz channel spacing column of Table 17-6 (Contents of the SIGNAL field).

The LENGTH field shall be set to the value given by Equation (21-24). The value of TXTIME is described in 30.4.1 (TXTIME and PSDU length calculation).

The LSB of the binary expression of the Length value shall be mapped to B5.

*TGba Editor: Please make the following changes (in red) to the equation on P153L31 in Section 30.3.9.3 of D2.0.*