IEEE P802.11  
Wireless LANs

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| 802.11az PHY change to address the use of LTF Generation bitmap from the negotiated (max BW/NSTS and LTF\_Rep) to derive LTF Generation bitmap  (relative to P802.11az/D2.0) | | | | |
| Date: 2020-01-12 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Ali Raissinia | Qualcomm Inc. | 1700 Technology Drive  San Jose, Ca |  | alirezar@qti.qualcomm.com |
| Feng Jiang | Intel | 3600 Juliette Ln, Santa Clara, CA 95054 |  | feng1.jiang@intel.com |
| Qinghua Li | Intel | 3600 Juliette Ln, Santa Clara, CA 95054 |  | qinghua.li@intel.com |

Abstract

This submission addresses the following LB249 CID based on 11az draft 2.0: 3130

This submission contains a proposal to address the actual use of LTF Generation bitmap based on adaptive transmission with respect to the derived LTF generation bitmap based on negotiated parameters including max BW, NSTS and LTF\_Rep.

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| CID | Page | Clause | Comment | Proposed Change | Resolution |
| 3130 | 206 | 27.3.17c | The procedure 27-qq and 27-rr describes specifically the actual bits to be used for the Secure-LTF-bits-R2I and Secure-LTF-bits-I2R for when BW transmission is less than the negotiated BW deriving the bitmaps. We would also need to specify the actual bits used from the negotiated derived bitmap when Nsts & Rep values are less than the negotiated/assigned values. | Add a figure that shows an example of the negotiated derived bitmap versus actual bits used for generating the transmitted Secure HE LTFs. | Revised  TGaz editor makes changes as specified in 11-20/0121r0 for CID 3130 |

**Discussion:**

The D2.0 specifies the behavior when the actual transmission BW is less than the negotiated max BW in which case P bits is used from the P’ bits (P<P’). However, the amendment text does not specify which bits from the derived LTF Generation bitmap should be dropped to represent the use of NSTS and LTF\_REP less than the negotiated and assigned values.

*TGaz Editor: please insert the following spec changes under section 27.3.17c Generation of Randomized LTF Sequence after line 22 of Page 207.*

The diagram in Figure 27-52gbaa represents an example of Secure-LTF-bits-I2R or Secure-LTF-bits-R2I derived from the set of negotiated and assigned parameters (i.e., BW=80MHz, NSTS=3 (or 4) and LTF\_Rep=2) between RSTA and ISTA and the corresponding set of Secure-LTF-bits-I2R or Secure-LTF-bits-R2I being used for the actual transmitted secure HE-LTFs adapted based on transmitted Bandwidth, NSTS and number of LTF\_Rep (i.e. BW=20MHz, NSTS=2 and LTF\_Rep=1).



**Figure** **27-52gbaa—An Example of Actually used Secure-LTF-bits-I2R or Secure-LTF-bits-R2I Extracted from Negotiated Secure-LTF-bits-I2R or Secure-LTF-bits-R2I and the symbol X denotes unused bits.**