IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Proposed Draft Text TXTIME and PSDU Length Calculation | | | | | | Date: 2020-11-18 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm |  |  | youhank@qti.qualcomm.com | |

Abstract

This document contains proposed draft text update for subclause 36.4.3 (TXTIME and PSDU\_LENGTH calculation).

**Revision History:**

R0: Initial version.

36.4.3 TXTIME and PSDU\_LENGTH calculation

The value of the TXTIME parameter returned by the PLME-TXTIME.confirm primitive shall be calculated for an EHT PPDU using Equation (36-91).

 (36-91)

where

 is defined as in Equation (36-82).

 takes the value of aSignalExtension as defined in Table 27-55 (HE PHY characteristics).

For an EHT MU PPDU, the total number of data OFDM symbols, , is given in 36.3.12.3.5 (Encoding process for an EHT MU PPDU).

For an EHT TB PPDU, the total number of data OFDM symbols, , is given in 36.3.12.3.6 (Encoding process for an EHT TB PPDU).

 is given in 36.3.13 (Packet extension).

The value of the PSDU\_LENGTH parameter for user *u* returned in the PLME-TXTIME.confirm primitive for an EHT TB PPDU is calculated using Equation (36-92).

 (36-92)

***Note to Editor: The RED colored portion in the equation above is to highlight the changes to be made, and Editor should NOT use red color when copying into D0.2.***

where

 is given in 36.3.12.3.6 (Encoding process for an EHT TB PPDU).

*NDBPS,u* is given in 36.5 (Parameters for EHT-MCSs).

*NDBPS,last,init,u* is given by Equation (36-49), with *ainit* given in 36.3.12.3.6 (Encoding process for an EHT TB PPDU).

The value of the PSDU\_LENGTH parameter for user *u* returned in the PLME-TXTIME.confirm primitive for an EHT MU PPDU is calculated using Equation (36-93) and Equation (36-94) for users using BCC and LDPC, respectively.

 (36-93)

 (36-94)

***Note to Editor: The RED colored portion in the equations above is to highlight the changes to be made, and Editor should NOT use red color when copying into D0.2.***

where

 is given by Equation (36-48).

 is given in Table 36-14 (Frequently used parameters).

 is given by Equation (36-59) for users using BCC and Equation (36-58) for users using LDPC.

 is given by Equation (36-49).

For an EHT TB PPDU, the value of the PSDU\_LENGTH parameter for user *u* returned in the RXVECTOR is calculated using Equation (36-95).

 (36-95)

***Note to Editor: The RED colored portion in the equation above is to highlight the changes to be made, and Editor should NOT use red color when copying into D0.2.***

where

*NSYM,RX,u* is given by Equation (36-96).

*NDBPS,last,RX,u* is given by Equation (36-97).

*NDBPS,u* is defined in Table 36-14 (Frequently used parameters).

 and *Ntail,u* are defined in Table 36-9 (Timing-related constants).

 (36-96)

where

 is given by Equation (36-76).

 (36-97)

***Note to Editor: The RED colored portion in the equation above is to highlight the changes to be made, and Editor should NOT use red color when copying into D0.2.***

where

*aRX,u* is given by Equation (36-98).

*NSD,short,u* is *NSD,short* defined in Table 36-29 (NSD,short values) for user *u*.

*NSS,u, NBPSCS,u, Ru* are defined in Table 36-14 (Frequently used parameters).

 (36-98)

where

 is the pre-FEC padding factor (ranging from 1 to 4) indicated in TRIGVECTOR parameter PRE\_FEC\_PADDING\_FACTOR.

For an EHT MU PPDU, the value of the RXVECTOR parameter PSDU\_LENGTH returned for user *u* is calculated using Equation (36-99).

 (36-99)

where

 is given by Equation (36-100).

 is given by Equation (36-101)

 is defined in Table 36-14 (Frequently used parameters).

 and  are defined in Table 36-9 (Timing-related constants).

 (36-100)

where

 is given by Equation (36-80).

 (36-101)

***Note to Editor: The RED colored portion in the equation above is to highlight the changes to be made, and Editor should NOT use red color when copying into D0.2.***

where

 is given by Equation (36-102).

 is  defined in Table 36-29 (NSD,short values) for user *u*.

, ,  are defined in Table 36-14 (Frequently used parameters).

 (36-102)

where

*a* is the pre-FEC padding factor (ranging from 1 to 4) indicated in the Pre-FEC Padding Factor field in the EHT-SIG.

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