IEEE P802.11
 Wireless LANs

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| **Proposed TGbd draft specification****For TXTIME and PSDU\_LENGTH calculation** |
| **Date:** 2020-03-15 |
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Abstract

This submission contains proposed spec text for 32.4.3 (TXTIME and PSDU\_LENGTH calculationin). The text reflects the related motions passed in 11/19/1863. The proposed changes are based on 11bd D0.2.

Revisions:

* Rev 0: Initial version of the document.

***To TGbd Editor:*** *At P62L6, replace the current text with the proposed changes below.*

***------------- Begin Text Changes ---------------***

**32.4.3 TXTIME and PSDU\_LENGTH calculation**

The value of the TXTIME parameter returned by the PLME-TXTIME.confirm primitive shall be calculated

for an NGV PPDU using Equation (32-46).

$TXTIME=40+T\_{RL-SIG}+T\_{NGV-SIG}+T\_{RNGV-SIG}$+ $T\_{NGV-STF}$+ $N\_{SYM}×T\_{SYM}$

 + $8×\left⌈\frac{N\_{NGV-LTF}×T\_{NGV-LTF} + N\_{MA}×N\_{NGV-LTF}×T\_{NGV-LTF}}{8}\right⌉$ (32-46)

Where

$T\_{RL-SIG},T\_{NGV-SIG},T\_{RNGV-SIG}$, $T\_{NGV-STF}$, $T\_{NGV-LTF} $, and $T\_{SYM}$ are definded in Table 32-6 (Timing-related constatns)

$N\_{NGV-LTF}$ is defined in Table 32-7 (Frequencely used parameters)

$N\_{MA}$ is defind in 32.3.8.10 (Midambles)

~~For an NGV PPDU using BCC encoding, the total number of data symbols in the Data field is given by Equation (32-47).~~

$N\_{SYM}=$$\left⌈\frac{8×APEP\\_LENGTH  + N\_{SERVICE }+N\_{tail}}{ N\_{DBPS }}\right⌉$ ~~(32-47)~~

For a NGV PPDU using LDPC encoding, the total number of data symbols in the Data field, $N\_{SYM}$ , is given in 21.3.10.5.4 (LDPC coding) (computed using Equation (19-41) in step d) of 19.3.11.7.5 (LDPC PPDU encoding process)).

The value of the PSDU\_LENGTH parameter returned in the PLME-TXTIME.confirm primitive for an NGV SU PPDU using LDPC encoding is calculated using Equation (32-x1).

PSDU\_LENGTH = $\left⌊\frac{ N\_{SYM,init }N\_{DBPS }- N\_{service }}{ 8}\right⌋$(32-x1)

where

$N\_{SYM,init }$is given by Equation (21-62)

***------------- End Text Changes ------------------***