IEEE P802.11
Wireless LANs

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| Proposed Text for Gamma Phase Rotation for HE PPDU |
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Abstract

This document shows the proposed text changes for gamma phase rotation for HE PPDU, which is discussed in document 11-16/0903r0.

The proposed changes are based on 11ax D0.2.

* Add the definition of Gamma\_k,BW for 11ax.
* In order to defind “preamble puncturing”, introduce *JBW* which is set of 20MHz channels in which pre-HE modulated fields are transmitted, and is chosen from ranges 0 to *N20MHz* – 1 where *N20MHz* is the number of 20MHz channels.

**Changes to Section 26.3.8**

***To TGax editor:*** ***P101L41*** *replace the current text in 26.3.8 Mathematical description with the proposed changes below.*

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

For a 20 MHz PPDU transmission,

|  |  |
| --- | --- |
| *ϒk,20* = 1 | (26‑8) |

For a 40 MHz PPDU transmission,

|  |  |
| --- | --- |
|  | (26‑9) |

For an 80 MHz PPDU transmission,

|  |  |
| --- | --- |
|  | (26‑10) |

For a noncontiguous 80+80 MHz PPDU transmission, each 80 MHz frequency segment shall use the phase rotation for 80 MHz PPDU transmissions as defined in Equation (26‑10).

For a contiguous 160 MHz PPDU transmission,

|  |  |
| --- | --- |
|  | (26‑11) |

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

**Changes to Section 26.3.9.3 (L-STF)**

***To TGax editor:* P102L31**

*Replace the summation, , in Equation (26-12) with the summation, *

***---------------------------***

***To TGax editor: P102L57***  *Add the following sentence after the last parameter, NL-STFTone, explanation in Section 26.3.9.3 (L-STF).*

*JBW* is the set of 20MHz channels in which pre-HE modulated fields are transmitted, and is chosen from ranges 0 to *N20MHz* – 1.

***---------------------------***

**To TGax editor: P103L7**

*Replace the summation, , in Equation (26-14) with the summation, .*

***---------------------------***

**Changes to Section 26.3.9.4 (L-LTF)**

**To TGax editor: P103L33**

*Replace the summation, , in Equation (26-15) with the summation, .*

***---------------------------***

***To TGax editor: P103L51***  *Add the following sentence after the last parameter, NL-LTFTone, explanation in Section 26.3.9.4 (L-LTF).*

*JBW* is the set of 20MHz channels in which pre-HE modulated fields are transmitted, and is chosen from ranges 0 to *N20MHz* – 1.

**To TGax editor: P104L7**

*Replace the summation, , in Equation (26-16) with the summation, .*

***---------------------------***

**Changes to Section 26.3.9.5 (L-SIG)**

**To TGax editor: P105L11**

*Replace the summation, , in Equation (26-18) with the summation, .*

***---------------------------***

***To TGax editor: P105L47***  *Add the following sentence after the last parameter, TCSiTX, explanation in Section 26.3.9.5 (L-SIG).*

*JBW* is the set of 20MHz channels in which pre-HE modulated fields are transmitted, and is chosen from ranges 0 to *N20MHz* – 1.

**To TGax editor: P105L59**

*Replace the summation, , in Equation (26-19) with the summation, .*

***---------------------------***

**Changes to Section 26.3.9.7 (HE-SIG-A)**

**To TGax editor: P111L59**

*Replace the summation, , in Equation (26-21) with the summation, .*

***---------------------------***

***To TGax editor: P112L29***  *Add the following sentence after the last parameter, TCSiTX, explanation in Section 26.3.9.7.4 (Encoding and Modulation).*

*JBW* is the set of 20MHz channels in which pre-HE modulated fields are transmitted, and is chosen from ranges 0 to *N20MHz* – 1.

**To TGax editor: P112L40**

*Replace the summation, , in Equation (26-22) with the summation, .*

***---------------------------***

**To TGax editor: P113L35**

*Replace the summation, , in Equation (26-23) with the summation, .*

***---------------------------***

**To TGax editor: P113L52**

*Replace the summation, , in Equation (26-24) with the summation, .*

***---------------------------***

**Changes to Section 26.3.9.8 (HE-SIG-B)**

**To TGax editor: P116L33**

*Replace the summation, , in Equation (26-25) with the summation, .*

***---------------------------***

***To TGax editor: P112L29***  *Add the following sentence after the last parameter, NSYM,HE-SIG-B, explanation in Section 26.3.9.8.3 (Time domain encoding).*

*JBW* is the set of 20MHz channels in which pre-HE modulated fields are transmitted, and is chosen from ranges 0 to *N20MHz* – 1.