IEEE P802.11
Wireless LANs

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| Resolve some PHY TBDs in D0.2  |
| Date: 2020-12-14 |
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Abstract

This submission proposes the draft text to resolve some TBDs in TGbe D0.2.

The baseline for this text is 802.11be D0.2

1. **Clarification on 240MHz transmission**

**Discussion**

Current D0.2 does not use the term “240MHz transmission” except in one TBD place. It is common understanding that there is no 240MHz PPDU and 240MHz transmission is achieved through 320MHz with puncturing 80MHz. To avoid confusion, suggest not using 240MHz transmission term in the spec.

**TGbe Editor: please find the proposed changes below in P163 line 34**

The 2´996+484 tone MRU is allowed in non-OFDMA 320 MHz EHT PPDU. The 2´996+484 tone MRU is obtained by puncturing any one of six 484-tone RUs in continuous 240 MHz and either the 1st or the 4th 996-tone RU in a 320 MHz EHT PPDU. The data subcarriers of a 2´996+484 tone MRU consist of the data subcarriers of the two 996-tone and 484-tone RUs that make up the 2´996+484 tone MRU

1. **Update on Nsts, Nss**

**Discussion**

It is already motioned that 11be doesn’t support STBC, so we need to replace the term “space-time stream” by “spatial stream” and make corresponding changes to the variable names. It is also agreed in D0.1 discussion that Nss is not longer needed and is replaced by Nss,u since 11be doesn’t define SU PPDU

**TGbe Editor:**

Please do a global search in Section 36 and replace the term “space-time stream” by “spatial stream” and change symbol “Nsts” to “Nss”.

Please also make the following changes

P262L18 DCM is an optional modulation scheme. It only applies to BPSK and Nss,u=1 .

P262L37 DUP mode is used in combination with EHT-MCS0 + DCM and single user transmission with Nss,u=1

P292L41 In the test, no beamforming steering matrix shall be used.

P294L51 Equation 36-89: Change Nss to Nss,u

P295L11 Nss,u is the number of spatial streams of the data.

**TGbe Editor: please find the proposed changes to table 36-14 Frequently used parameters**

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| ,  | Number of spatial streams. For the Data field,  is the number of spatial streams at *r*-th RU or MRU for user *u*, , and  is the number of spatial streams for user *u*, . |
|  | For EHT modulated fields,  is the total number of spatial streams at *r*-th RU or MRU in a PPDU: .For pre-EHT modulated fields,  is undefined. |
|  | Number of transmit chains. |
|  | The number of OFDM symbols in the EHT-LTF field (see 36.3.11.10 (EHT-LTF)). |
|  | The number of OFDM symbols in the EHT-SIG field (see 36.3.11.8 (EHT-SIG)). |
|  | Set of used subcarrier indices in the *r*-th occupied RU or MRU. |
|  |  is the coding rate for user *u*, . |
|  | The sum of the number of space-time streams of users prior to user *u* in RU or MRU *r*. For pre-EHT modulated fields, . For EHT modulated fields,  for  and (Note to editor, please change Nsts,r,u’ to Nss,r,u’), for . |

1. **Table 36-9 (Timing related constants)**

**TGbe Editor: please find the proposed changes below for Table 36-9 P186L16**

|  |  |  |
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| *TPE* | 0, 4 µs, 8 µs, 12 µs, 16us or 20 µs depending on the actual extension duration used | Duration of the PE field |

**TGbe Editor: please find the proposed changes below for P188L60**.