IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | CC36 CR on PPDU Encoding Process | | | | | | Date: 2021-07-12 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm |  |  | youhank@qti.qualcomm.com | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for the following comments from CC36 in P802.11be D1.0:

4546, 7186, 4841, 8094, 7187, 7188, 4842, 6433, 4843, 7476, 527

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version.

# CID 4546, 7186

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 4546 | 36.3.7.2 | 383.52 | Remove "and frequency segment".  Make the similar change to all the CSD per chain step in clauses in 36.3.7 (e.g P384L13) | as in the comment. |
| 7186 | 36.3.7.2 | 383.52 | "for each transmit chain and frequency segment".  Since we've eliminated 80+80, 160+160, etc., I believe all signals now have only a single segment by definition.  In 11ax all signals has indices i\_TX and i\_seg, but the latter has been removed in 11be. Compare e.g. Equations (27-1) in 11ax and (36-7) in 11be. | Remove "and frequency segment". Also fix in other places where appropriate. |

**Background**

D1.01 P405

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D1.01 P406

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D1.01 P406

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D1.01 P407

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D1.01 P408

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D1.01 P408

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D1.01 P408

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D1.01 P409

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D1.01 P410

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**Proposed Resolution: CID 4546, 7186**

**Revised**

**Note to commenter:**

Agree with the commenter that “frequency segment” is not needed because EHT has only one frequency segment. The instruction to editor implements the text changes suggested by the commenter.

**Instruction to editor:**

In D1.01, change “spatial stream and frequency segment” to “spatial stream” at

P405L52

P406L13

P406L47

P407L18

P408L1

P408L35

P408L52

P409L13

P410L11

(Note to editor: Same resolutions for CIDs 4546 and 7186.)

# CID 4841

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 4841 | 36.3.7.6 | 385.34 | From the U-SIG, we can use the extra tone for data. so, the number of available is 56 tone for data and pilot. so, delete the f) | As in comment |

**Background**

D1.0 P385

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**Proposed Resolution: CID 4841**

**Rejected**

Step f) is not related to the fact that U-SIG uses 4 extra tones to carry information compared to L-SIG. The duplication over all occupied 20 MHz is required and correct.

# CID 8094

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 8094 | 36.3.7.6 | 385.34 | frequency block should be frequencty subblock | as in comment |

**Background**

D1.0 P385

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**Proposed Resolution: CID 4841**

**Revised**

**Note to commenter:**

The instruction to editor implements the text changes suggested by the commenter.

**Instruction to editor:**

At D1.01 P407L34, change “frequency block” to “frequency subblock”.

# CID 7187

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 7187 | 36.3.7.6 | 385.37 | Change "as shown in" to "as described in" | See comment |

**Background**

D1.0 P385

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**Proposed Resolution: CID 7187**

**Accepted**

# CID 7188

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 7188 | 36.3.7.6 | 385.52 | Change "subblock" to "subblocks" | See comment |

**Background**

D1.0 P385

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**Proposed Resolution: CID 7188**

**Rejected**

There is no “subblock” at P385L52.

There is a “subblock” at P358L51, but L34 says “… apply for each frequency subblock”. Hence, the singular “subblock” is correct at L51.

# CID 4842, 6433

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 4842 | 36.3.7.6 | 385.56 | To make it clear, add the size of the frequency block.. | change " between frequency subblocks " with " between 80MHz frequency subblocks" |
| 6433 | 36.3.7.6 | 385.56 | Add "80 MHz" between "between" and "frequency". | As in comment |

**Background**

D1.0 P385

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**Proposed Resolution: CID 4842, 6433**

**Accepted**

(Note to editor: Same resolutions for CIDs 4842 and 6433.)

# CID 4843

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 4843 | 36.3.7.6 | 385.57 | To indicate the DL OFDMA, the DL/UL flag in U-SIG should be used. add the DL-UL flag in U-SIG is set to 0 in this sentence. | before (DL OFDMA), add " the DL-UL flag in U-SIG is set to 0" |

**Background**

D1.01 P407

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**Proposed Resolution: CID 4843**

**Revised**

**Note to commenter:**

Agree with the commenter that UL/DL flag is also used in determining DL OFDMA. Instruction to editor below implements the proposed change by the commenter, but with some editorial updates.

**Instruction to editor:**

At D1.01 P407L57, change

“field in the U-SIG equal to 0 (DL OFDMA).”

to

“field equal to 0 and the UL/DL field equal to 0 in the U-SIG (DL OFDMA).”

# CID 7476

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 7476 | 36.3.7.8 | 386.58 | Change "Prepend a GI; 0.8 us..." to "Prepend a GI of 0.8 us..." | As in comment |

**Background**

D1.0 386:

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**Proposed Resolution: CID 7476**

**Accepted**

# CID 5527

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 5527 | 36.3.7.9 | 387.11 | In  "..except the UL MU-MIMO transmission not using EHT single stream pilot EHT-LTF mode as described in 36.3.12.10 (EHT-LTF)",  the term of EHT single stream pilot EHT-LTF mode is not defined in 36.3.12.10 (EHT-LTF).  It would be better to just say as  "..except the UL MU-MIMO transmission by using 1x-LTF as described in 36.3.12.10 (EHT-LTF)". | As in comment |

**Background**

D1.0 387:

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D1.01 P491:

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P1.01 P496:

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**Proposed Resolution: CID 5527**

**Rejected**

36.3.12.10 has the description of the use of single stream pilot in EHT-LTF at D1.01 P491L13-21. Also, Equation (36-41) within 36.3.12.10 uses the term sigle stream pilot EHT-LTF mode to describe how the EHT-LTF is generated.

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