IEEE P802.11  
Wireless LANs

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| CC36 CR for the EHT PHY LTF | | | | |
| Date: 2022-01-18 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
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|  |  |  |  |  |

Abstract

This submission proposes resolutions of comments received from TGbe comment collection CC36 based on TGbe D1.0 for the following 40 CIDs:

* 4570
* 4571
* 4577
* 4578
* 4580
* 4676
* 4864
* 4865
* 4866
* 4953
* 4954
* 5006
* 5007
* 5008
* 5094
* 5095
* 5486
* 5529
* 5530
* 5531
* 5720
* 5721
* 5722
* 6093
* 6471
* 6833
* 6834
* 6835
* 6836
* 7000
* 7229
* 7230
* 7231
* 7232
* 7233
* 7234
* 7468
* 7745
* 7747
* 8026

Revisions:

* Rev 0: Initial version of the document.

1. **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11be editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

***CID 4570***

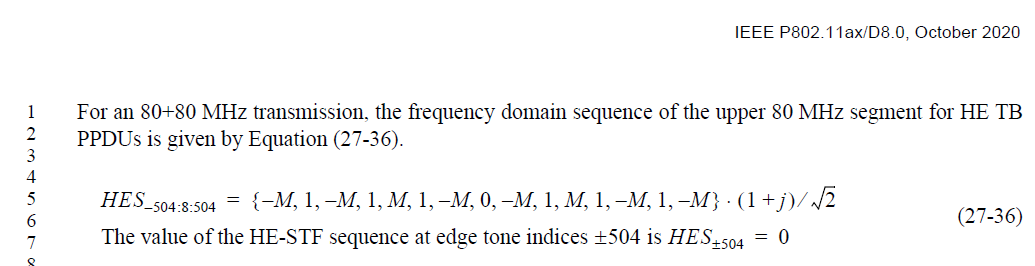
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4570 | 36.3.12.10 | 0.00 | There is a typo. 'A means for' should be revised as 'a mean for'. | As in the comment. | Rejected.  **means** is always singular when it's used to mean "a (single) method" or "a (single) way of doing something" |

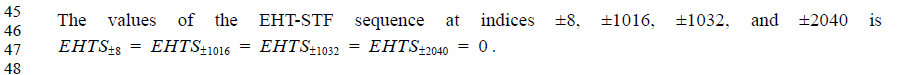
**Discussion:**

***CID 4571***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4571 | 36.3.12.10 | 0.00 | There is a typo. 'The values of ...is ...' should be revised as 'The values of ...are ...'. | As in the comment. | Accepted  . |

**Discussion:**

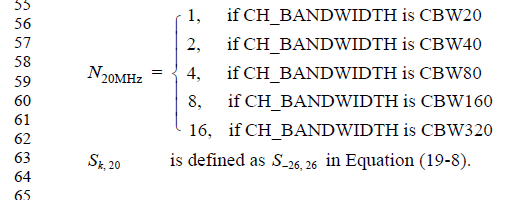




***CID 4577***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4577 | 36.3.12.10 | 405.63 | The value of S\_(k,20) should be clarified. | S\_(k,20) is defined as the k-th element of S\_(-26,26) in Equation (19-8) | Revised.  Instructions to the editor：  Please revise the sentence 405.63 as:  S\_(k,20) is defined as  , where  is an element of S\_{-26,26} for -26<=k<=26 from Equation (19-8) |

**Discussion:**



***CID 4578***

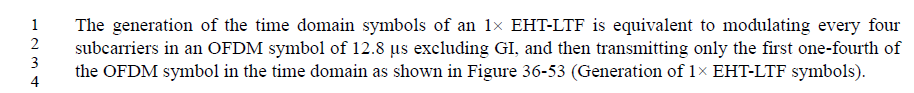
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4578 | 36.3.12.10 | 406.36 | The value of L\_(k,20) should be clarified. | L\_(k,20) is defined as the k-th element of L\_(-26,26) in Equation (17-8) | Revised.  Instructions to the editor：  Please revise the sentence 406.36 as:  L\_(k,20) is defined as Lk, where Lk is an element of L\_{-26,26} for -26<=k<=26 from Equation (17-8) |

**Discussion:**

***CID 4580***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4580 | 36.3.12.10 | 0.00 | There is a typo. 'an 1x EHT LTF' should be 'a 1x EHT LTF'. | As in the comment. | Accepted. |

**Discussion:**



***CID 4676***

|  |  |  |  |  |  |
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4676 | 36.3.12.10 | 469.24 | First sentence at P469L60 duplicates first sentence at P469L60. Yet this ordering is helpful. | Change L24 to "In an EHT MU PPDU with a single RU/MRU, NEHTLTF is indicated in the EHT-SIG field. In an EHT MU PPDU with a single RU/MRU ...". Change L60 to "In an EHT MU PPDU with more than one RU/MRU, NEHTLTF is indicated in the EHT-SIG field. ... " | Rejected.  The original description is clear enough. |

**Discussion:**

***CID 6834***

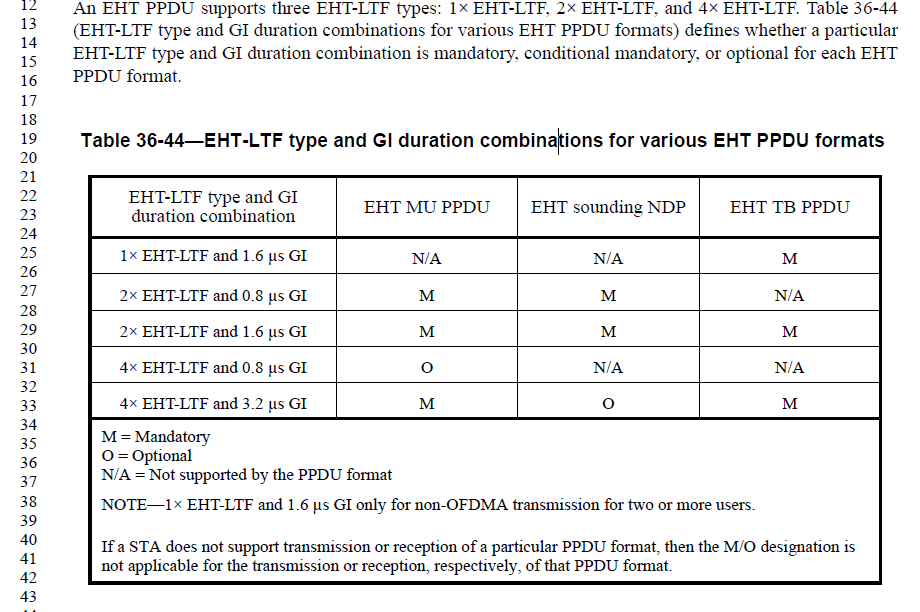
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6834 | 36.3.12.10 | 469.60 | In an EHT MU PPDU, is indicated in the EHT-SIG field. | Exact sentence is repeated in line 24, remove | Rejected.  Line 24 is for EHT MU PPDU with a single RU/MRU, while Line 60 is for EHT MU PPDU with more than one RU/MRU, it is ok to keep it. |

**Discussion:**

***CID 4864***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4864 | 36.3.12.10 | 470.15 | Conditional mandatory is not used in table 36-44. delete it. | As in comment | Revised.  Instructions to the editor：  Please revise the sentence in P470.15 as:  “Table 36-44 (EHT-LTF type and GI duration combinations for various EHT PPDU formats) defines whether a particular EHT-LTF type and GI duration combination is mandatory, optional, or not supported for each EHT PPDU format.” |

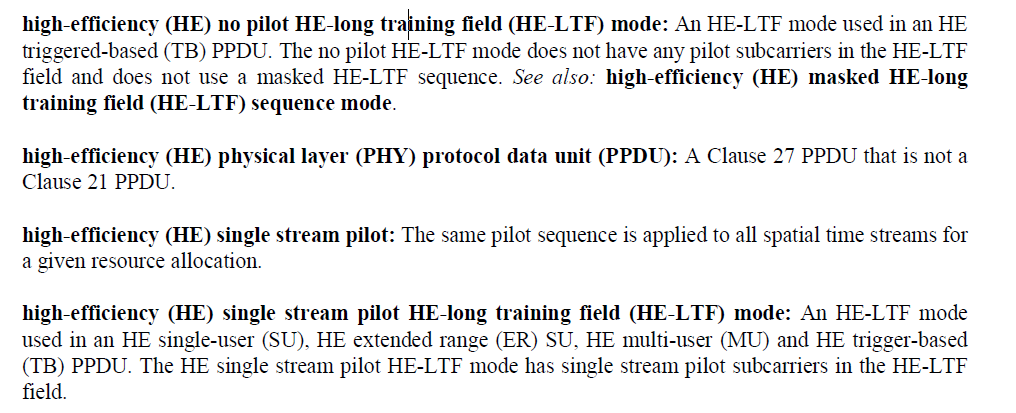
**Discussion:**



***CID 4865?***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4865 | 36.3.12.10 | 475.39 | The EHT no pilot EHT-LTF mode is not clear. change the text "the EHT no pilot EHT-LTF mode is used" with following "EHT-LTF does not include the pilot." and delete the editor's note | As in comment | Revised.  Instructions to the editor：  Please  At D1.0 P475L18: add "There are no pilot subcarriers in the EHT-LTF field when 1x EHT-LTF is used."  At D1.0 P475L38-41: delete “If the 1x EHT-LTF is used for non-OFDMA UL MU-MIMO, the EHT no pilot EHT-LTF mode is used.  Editor’s Note: A definition on “EHT no pilot EHT-LTF mode” is missing.” |

**Discussion:**

***CID 5531***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5531 | 36.3.12.10 | 475.39 | Remove the unnecessary sentence. EHT no pilot EHT-LTF mode is not even defined in the spec. | Delete the sentence of "If the 1x EHT-LTF is used for non-OFDMA UL MU-MIMO, the EHT no pilot EHT-LTF mode is used." | Revised.  Incorporate the changes as shown in this document under CID 4865 in document 802.11-22/0113r1.  Note to the commenter: CID4865 already solved this problem |

**Discussion:**

***CID 7232***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7232 | 36.3.12.10 | 475.38 | "If the 1x EHT-LTF is used for non-OFDMA UL MU-MIMO, the EHT no pilot EHT-LTF mode is used.". Do we really define this as a mode, or is it just that no pilots are present? For a mode, one would expect an explicit indication. | Change to "If the 1x EHT-LTF is used for non-OFDMA UL MU-MIMO, no pilots are present in EHT-LTF" | Revised.  Incorporate the changes as shown in this document under CID 4865 in document 802.11-22/0113r1.  Note to the commenter: CID4865 already solved this problem |

**Discussion:**

***CID 7747***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7747 | 36.3.12.10 | 475.38 | "the EHT no pilot EHT-LTF mode" is not defined. To elaborate the definition. | If the 1 x EHT-LTF is used for non-OFDMA UL MU-MIMO, there are no pilot subcarriers in EHT-LTF. Suncarriers in EHT-LTF include data subcarriers over the PPDU bandwidth without preamble puncturing or the nonpunctured portions of the PPDU bandwidth with preamble puncturing, DC and Null subcarriers only. | Revised.  Incorporate the changes as shown in this document under CID 4865 in document 802.11-22/0113r1.  Note to the commenter: CID4865 already solved this problem |

**Discussion:**

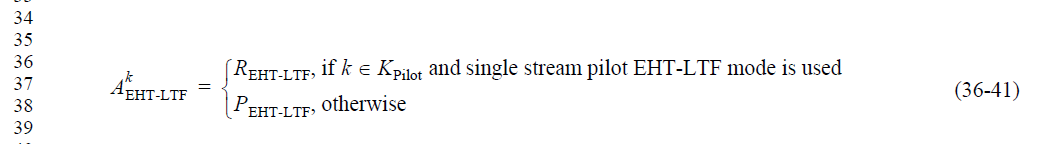
***CID 8026***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 8026 | 36.3.12.10 | 475.41 | Define EHT no pilot EHT-LTF mode. | "Add the following text at P42L56:  ""extremely high throughput (EHT) no pilot EHT-long training field (EHT-LTF) mode: An EHT-LTF mode used in an EHT triggered-based (TB) PPDU. The no pilot EHT-LTF mode does not have any pilot subcarriers in the EHT-LTF field.""  Delete the Editor's note at P475L41." | Revised.  Incorporate the changes as shown in this document under CID 4865.  Note to the commenter: CID4865 already solved this problem |

**Discussion:**

***CID 5530?***

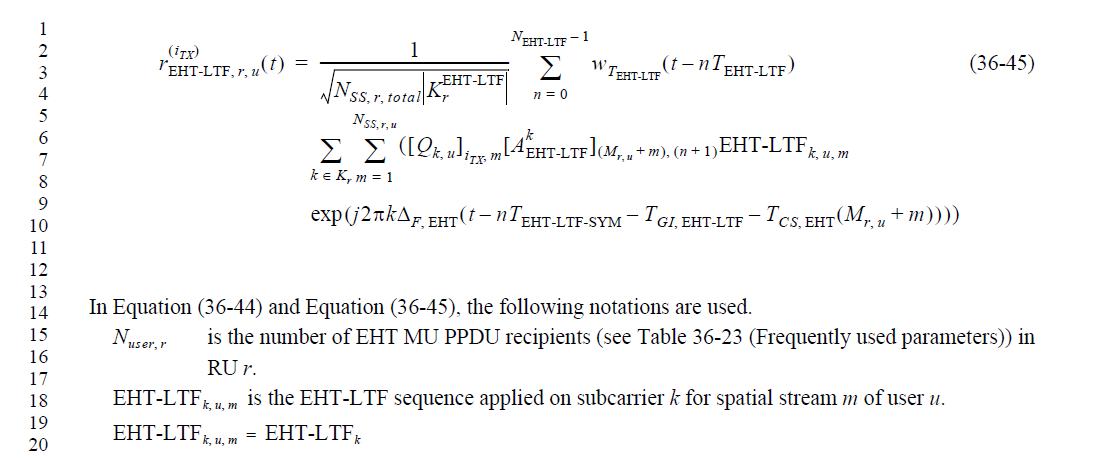
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5530 | 36.3.12.10 | 474.36 | There is no single stream pilot EHT-LTF mode defined in 11be. Modify as "EHT-LTF with single stream pilot is used", otherwise define the single stream pilot LTF-mode in the next version of spec. | As in comment | Revised.  Instructions to the editor：  Please replace the sentence“and single stream pilot EHT-LTF mode is used” with “EHT-LTF with single stream pilot is used” |

**Discussion:** 

***CID 4866***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4866 | 36.3.12.10 | 476.19 | This text seems not to need. delete it or if it needs, add the description for this equation. | As in comment | Rejected.  This equation is required to support the equation (36-45) |

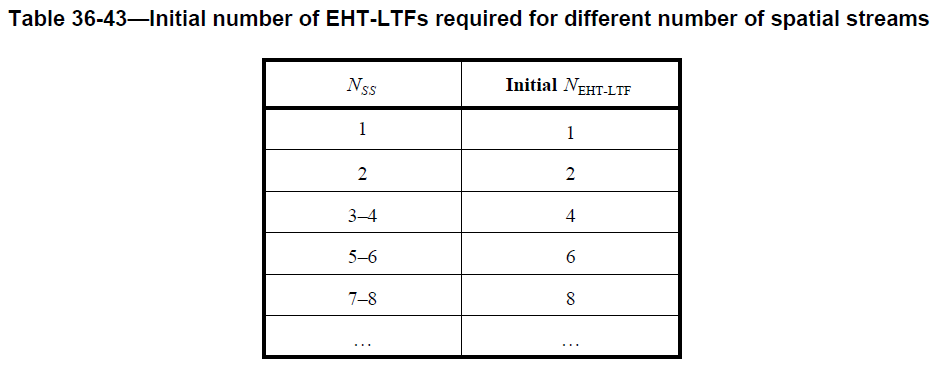
**Discussion:**



***CID 4953***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4953 | 36.3.12.10 | 469.47 | What is "..." for in Table 36-43? | as in comment | Revised.  Instructions to the editor：  Please remove the last row of  Table 36-43—Initial number of EHT-LTFs required for different number of spatial streams |

**Discussion:**



***CID 5529***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5529 | 36.3.12.10 | 469.32 | In the Table 36-43 (Initial number of EHT-LTFs required for different number of spatial streams), last row may misleading that there could be any numbers possible more than 8. It'd better delete this row until we get any specific number. | As in comment | Revised.  Instructions to the editor：  Please remove the last row of  Table 36-43—Initial number of EHT-LTFs required for different number of spatial streams  Note to the commenter and editor: The same resolution as CID 4953. |

**Discussion:**

***CID 7229***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7229 | 36.3.12.10 | 469.46 | Replace last row of Table 36-43 with ">8 | Reserved" instead of "...|..." | See comment | Revised.  Instructions to the editor：  Please remove the last row of  Table 36-43—Initial number of EHT-LTFs required for different number of spatial streams  Note to the commenter and editor: The same resolution as CID 4953. |

**Discussion:**

***CID 7648***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7648 | 36.3.12.10 | 469.46 | The 3 dots (...) in both columns of Table 36-43 are misleading, because it suggests that more than 8 spatial streams are supported | Suggest to delete the row with the 3 dots ("...") | Revised.  Instructions to the editor：  Please remove the last row of  Table 36-43—Initial number of EHT-LTFs required for different number of spatial streams  Note to the commenter and editor: The same resolution as CID 4953 |

**Discussion:**

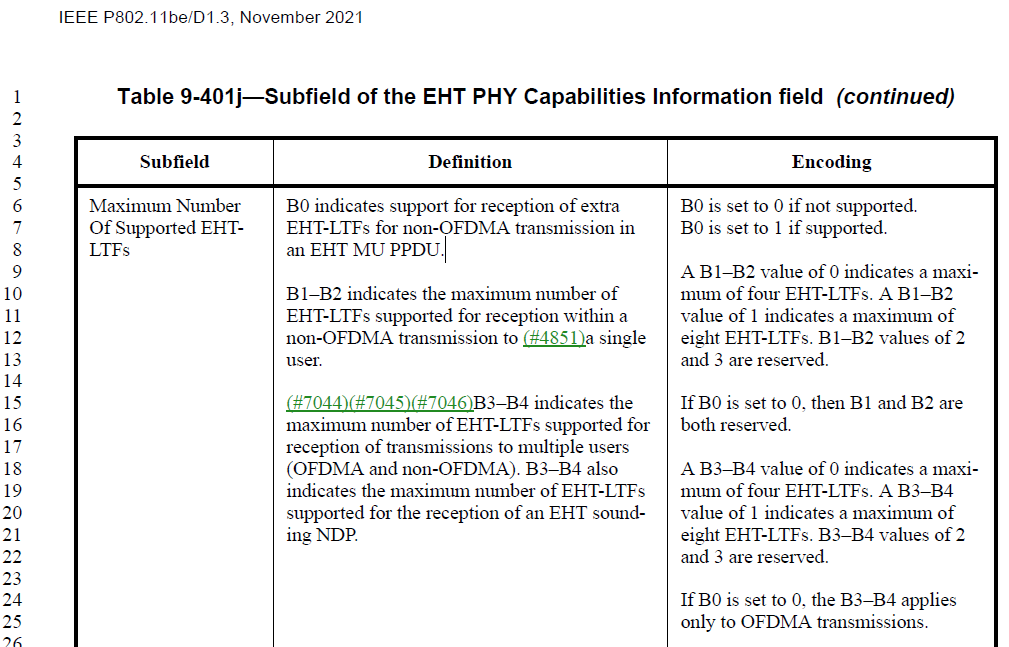
***CID 4954***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 4954 | 36.3.12.10 | 469.57 | "Supporting additional EHT-LTFs is optional for the receiver, which is indicated by the Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field." I don't see this subfield defined in the PHY Capabilties IE. Furthermore, its PHY Capabilities, not Capability. | as in comment | Revised.  Instructions to the editor：  Please make the changes as shown below CID 4954 in document 802.11-22/0113r1 |

**Discussion:**

In order to improve the MIMO channel estimation for non-OFDMA transmission, the number of EHT-LTFs may be larger than the initial number of EHT-LTFs determined by the total number of spatial streams. If additional EHT-LTFs are used, then the total number of EHT-LTFs (which is signaled separately from *NSS* )

shall be no more than twice the initial number of EHT-LTFs determined by the number of spatial streams as shown in [Table 36-43 (Initial number of EHT-LTFs required for different number of spatial streams)](#bookmark163), and chosen from the set [2 4 8]. Supporting additional EHT-LTFs is optional for the receiver, which is indicated by the Maximum Number Of Supported EHT-LTFs subfield of the EHT PHY Capabilities Information field.



***CID 5006***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5006 | 36.3.12.10 | 469.57 | Wrong reference. | Change "the Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field" to "the Maximum Number Of Supported EHT-LTFs subfield in the EHT PHY Capabilities Information field in the EHT Capabilities element (see 9.4.2.295c.3 (EHT PHY Capabilities Information field))". | Revised.  Please make the changes as shown below CID 4954 in document 802.11-22/0113r1  Note to the commenter and editor: The same resolution as CID 4954. |

**Discussion:**

***CID 6833***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6833 | 36.3.12.10 | 469.56 | Supporting additional EHT-LTFs is optional for the receiver, which is indicated by the Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field. | "The name of the field in capabilities field is ""Maximum Number of Supported EHT-LTFs"" | Revised.  Please make the changes as shown below CID 4954 in document 802.11-22/0113r1  Note to the commenter and editor: The same resolution as CID 4954. |

**Discussion:**

***CID 5721***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5721 | 36.3.12.10 | 469.57 | The indication of support for extra LTFs is carried in the first bit of "Maximum Number of Supported EHT-LTFs" subfield in "EHT PHY Capabilities Information field | Need to change "EHT PHY Capability field" to "EHT PHY Capabilities Information field". Optional: also change "Extra LTFs Support for Non-OFDMA PPDU" to "Maximumum Number of Supported EHT-LTFs subfield". The optional change can allow reader to easily locate location of relevant information in the document | Revised.  Please make the changes as shown below CID 4954  Note to the commenter and editor: The same resolution as CID 4954. |

**Discussion:**

***CID 5094***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5094 | 36.3.12.10 | 469.60 | Number of LTF symbols in any RU/MRU can not be greater than minimum of maximum number of LTFs indicated by all the STAs allocated within PPDU in Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field. Need to add this limit | Modify as in comment | Rejected.  There is no Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field. |

**Discussion:**

***CID 5095***

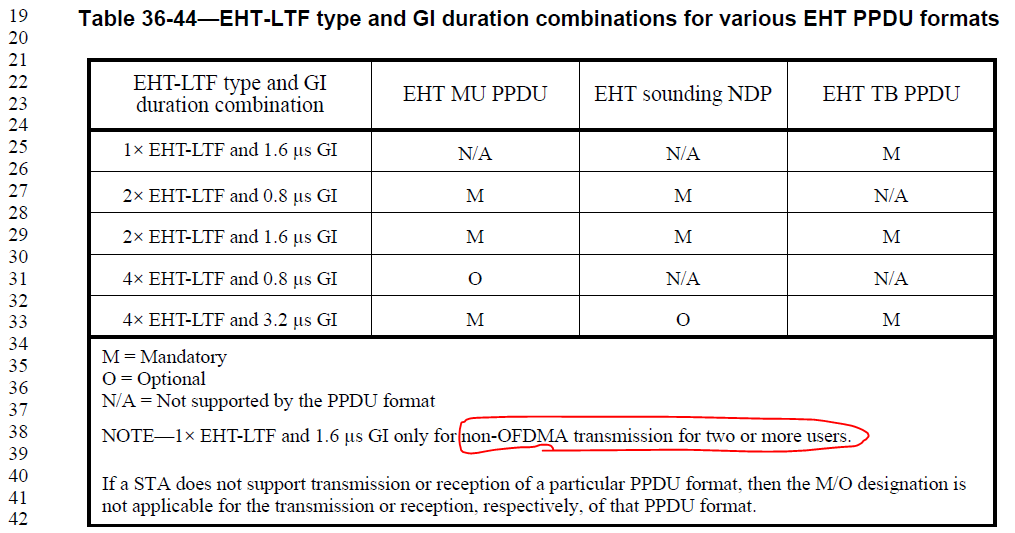
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5095 | 36.3.12.10 | 470.07 | Number of LTF symbols in any RU/MRU can not be greater than minimum of maximum number of LTFs indicated by all the STAs allocated within PPDU in Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field. Need to add this limit | Modify as in comment | Rejected.  There is no Extra LTFs Support for Non-OFDMA PPDU EHT PHY Capability field. |

**Discussion:**

***CID 5007(continue)***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5007 | 36.3.12.10 | 470.38 | It is hard to always guarantee the situation mentioned in NOTE. For example, when an AP triggers UL MU MIMO with two users, GI And EHT-LTF Type subfield of the Common Info field in the Trigger frame is set to 1x EHT-LTF+1.6us GI to guarantee the NOTE. In that case two users shall transmit TB PPDU with 1x EHT-LTF + 1.6us GI. However, if one of the users cannot transmit TB PPDU, only one user transmits TB PPDU with 1x EHT-LTF + 1.6us GI. This case conflicts with the NOTE. Thus, NOTE needs to be modified to eliminate this contradiction, for example change the NOTE to "GI And EHT-LTF Type subfield of the Common Info field in the Trigger frame shall not be set to 1x EHT-LTF+1.6us GI except when an AP triggers non-OFDMA EHT TB PPDU with two or more users.". | See the comment. | Rejected.  The standard cannot control the final triggered results. Instead, the standard should make rules for the STA that send the trigger frame. This note is for the STA which sends the trigger frame. |

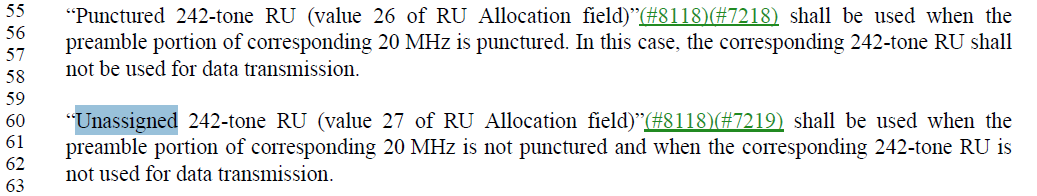
**Discussion:**



***CID 5008***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5008 | 36.3.12.10 | 474.11 | Subcarriers for punctured channels are also set to zero. Change the sentence to "for all subcarriers that belong to unasigned RUs or punctured channels as well as ~". | See the comment. | Rejected.  RUs in the punctured channels are also unassigned RUs. |

**Discussion:**



***CID 5486***

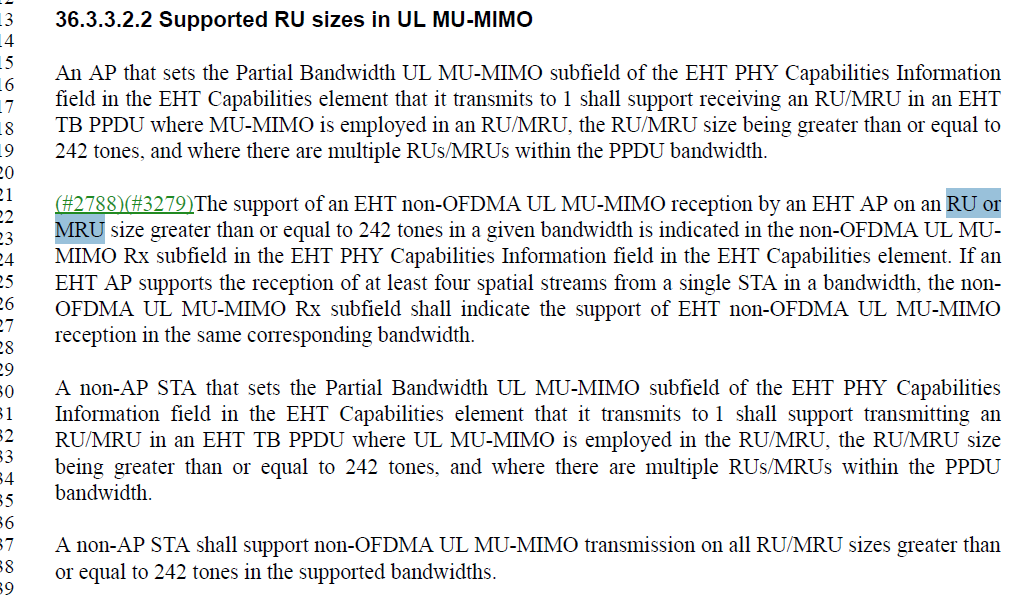
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5486 | 36.3.12.10 | 475.39 | Clarify that all tones are data tones of EHT-LTF when no pilot EHT-LTF mode is used. | as in comment | Rejected.  It is not true that “all tones are data tones of EHT-LTF when no pilot EHT-LTF mode is used” |

**Discussion:**

***CID 5720***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5720 | 36.3.12.10 | 469.07 | change '/' to 'or' for clarity. Same for L9, L20,L25,L61,L63, and elsewhere in the section | See comment | Rejected.  Both “RU/MRU” and “RU or MRU” are used throughout the whole draft. “RU/MRU” is used more frequently than “RU or MRU” |

**Discussion:**



***CID 5722***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 5722 | 36.2.12.10 | 473.07 | While it doesn't cause any confusion here, the parameters "LTF\_80MHz\_left\_4x" and "LTF\_80MHz\_left\_right\_4x" have been used in 27.3.11.10 before. May want to consider giving those two new sequences a different name here | See comment | Revised.  Instructions to the editor：  Please replace the “LTF\_80MHz\_left\_4x” and “LTF\_80MHz\_right\_4x” with “  LTF\_80MHz\_subblock\_left\_4x” and “  LTF\_80MHz\_subblock\_right\_4x” respectively in page 473 |

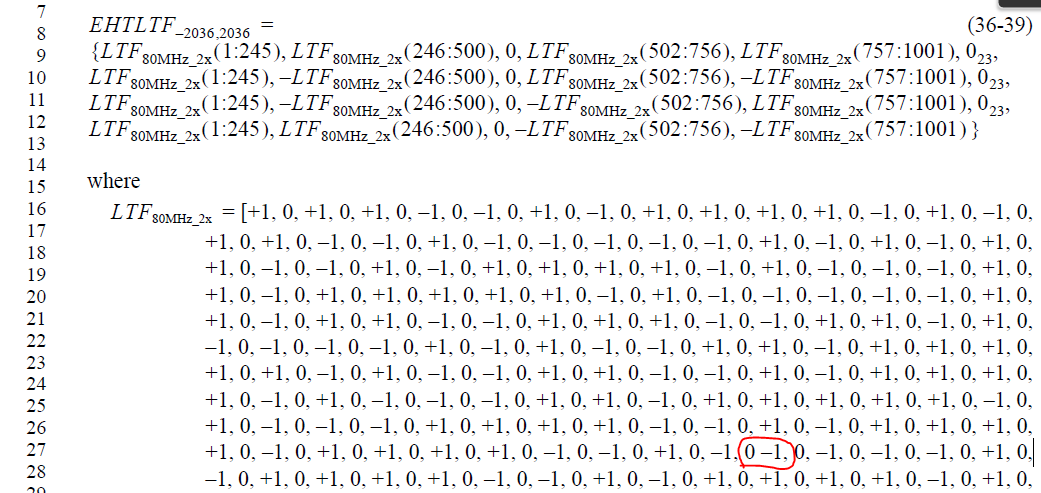
**Discussion:**

***CID 6093***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6093 | 36.3.12.10 | 472.27 | Missing comma | Add comma between "0-1" (Ten positions from right side) | Accepted. |

**Discussion:**

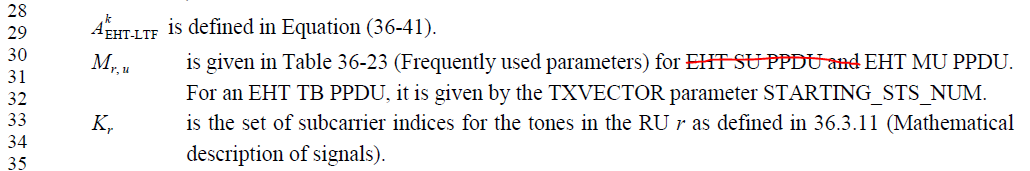
Commenter: Marcos Martinez Vazquez



***CID 6471***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6471 | 36.3.12.10 | 476.31 | There is no EHT SU PPDU | Remove "EHT SU PPDU and" | Accepted |

**Discussion:**



***CID 7000***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7000 | 36.3.12.10 | 476.30 | There is no EHT SU PPDU, only EHT MU and EHT TB. | Remove 'EHT SU PPDU'. | Revised.  Remove "EHT SU PPDU and"  Note to the commenter and editor: The same resolution as CID 6471. |

**Discussion:**

***CID 7745***

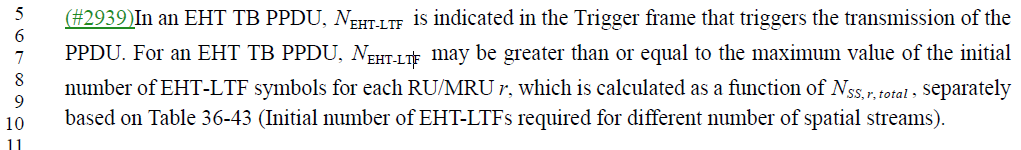
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7745 | 36.3.12.10 | 476.30 | Remove EHT SU PPDU | as commented | Revised.  Remove "EHT SU PPDU and"  Note to the commenter and editor: The same resolution as CID 6471. |

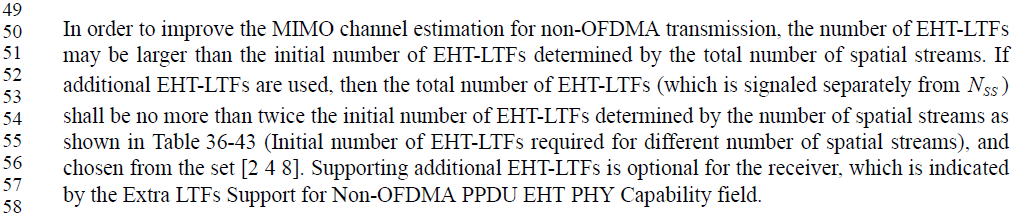
**Discussion:**

***CID 6835***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6835 | 36.3.12.10 | 470.05 | In an EHT TB PPDU, N\_EHT-LTF is indicated in the Trigger frame that triggers the transmission of the PPDU. For an EHT TB PPDU, N\_EHT-LTF may be greater than or equal to the maximum value of the initial number of EHT-LTF symbols for each RU/MRU r, which is calculated as a function of N\_SS,r,total, separately based on Table 36-43 (Initial number of EHT-LTFs required for different number of spatial streams). | This paragraph treats UL-OFDMA and UL-MUMIMO TB-PPDU the same, which is in conflict with paragraph in page 469, lines 50-58, that specifies more restrictive conditions for N\_EHT-LTF for "non-OFDMA" regardless of MU or TB-PPDU | Rejected.  There is no conflict because for UL-OFDMA, N\_EHT-LTF is a function of maximum N\_ss among all RU/MRU, which may be greater than or equal to the maximum value of the initial number of EHT-LTF symbols for each RU/MRU r |

**Discussion:**





***CID 6836***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 6836 | 36.3.12.10 | 470.45 | In an EHT MU PPDU, the combination of EHT-LTF type and GI duration is indicated in U-SIG field. | Combination of EHT-LTF type and GI duration is indicated in EHT-SIG field (USIG overflow). | Revised.  Instructions to the editor：  Please replace the “U-SIG” with “EHT-SIG” in Page 470 Line 45 |

**Discussion:**

In an EHT MU PPDU, the combination of EHT-LTF type and GI duration is indicated in EHT-SIG field. In an EHT TB PPDU, the combination of EHT-LTF type and GI duration is indicated in the Trigger frame that triggers the transmission of the PPDU. If an EHT PPDU is an EHT sounding NDP, the combinations of EHT-LTF types and GI durations are listed in [36.3.18 (EHT sounding NDP)](#bookmark277).

***CID 7231***

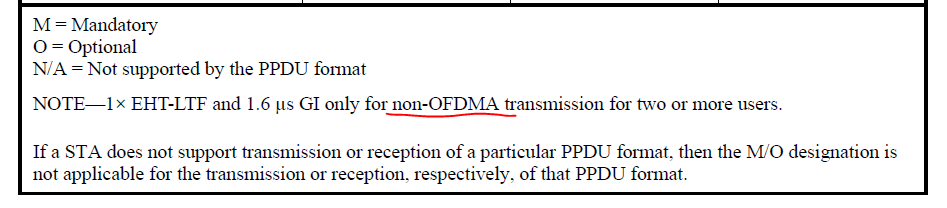
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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7231 | 36.3.12.10 | 470.45 | "In an EHT MU PPDU, the combination of EHT-LTF type and GI duration is indicated in U-SIG field.". Looks like it's indicated in the Common field of EHT-SIG. | Correct | Revised.  Instructions to the editor：  Please replace the “U-SIG” with “EHT-SIG” in Page 470 Line 45  Note to the commenter and editor: The same resolution as CID6836 |

**Discussion:**

***CID 7230***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7230 | 36.3.12.10 | 469.38 | In Note change "non-OFDMA" to "UL non-OFDMA" | See comment | Revised.  Instructions to the editor：  Please replace the “non-OFDMA” with “UL non-OFDMA” in Page 470 Line 38 of draft 1.0 |

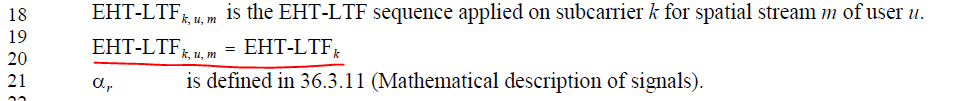
**Discussion:**



***CID 7233***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7233 | 36.3.12.10 | 476.19 | Change "EHT-LTF\_k,u,m = EHT-LTF\_k" to "EHT-LTF\_k,u,m = EHT-LTF\_k for all values of u and m" | See comment | Accepted. |

**Discussion:**



***CID 7234***

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| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 7234 | 36.3.12.10 | 476.24 | "(M\_r,u + r)" should be "(M\_r,u + m)". "cyclic shift for the spatial stream M\_r,u" should be "cyclic shift for the spatial stream M\_r,u + m" | See comment | Revised.  Instructions to the editor：  Please make the changes as shown below CID 7234 in document 802.11-22/0113r1 |

**Discussion:**

*TCS* EHT*Mr* *u* + *m* represents the cyclic shift for the spatial stream *Mr* *u +m*as defined in [36.3.12.2.2 (Cyclic](#bookmark94) [shift for EHT modulated fields)](#bookmark94).