IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolutions on 10 CIDs related to Clause 36.1.1 | | | | |
| Date: | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Kanke Wu | Qualcomm, Inc. | 5775 Morehouse Dr. San Diego, CA 92121 |  | kankew@qti.qualcomm.com |
| Bin Tian |  |

Abstract

This document provides PHY resolutions for the following CIDs on subclause 36.1.1. The baseline for this comment resolution document is 802.11be Draft 0.3.

* CIDs:

1241 2617 2618 2619 2620 2677 2678 2679 2680 3039

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: updates on CID 3039
* Rev 2: minor update

# **CID 1241**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1241 | 36.3.1 | 175 | 31 | 36.3.1 Introduction should be popoulated | as in comment | REVISED.  Agree with commenter.  Note to editor:  Please insert the following paragraphs to P175L32, under 36.3.1 Introduction section:  “This subclause provides the procedure by which PSDUs are converted to and from transmissions on the  wireless medium.  During transmission, a PSDU (in the SU case) or one or more PSDUs (in the MU case) are processed (i.e.,  scrambled and coded) and appended to the PHY preamble to create the PPDU. At the receiver, the PHY  preamble is processed to aid in the detection, demodulation, and delivery of the PSDU.” |

# CID 2617

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2617 | 36.1.1 | 155 | 53 | Transmission of an OFDMA EHT MU PPDU with any preamble puncturing pattern needed to support mandatory MRU for non-OFDMA as specified in 36.3.2.3.3 (Large size multiple RUs). | Reference to non-OFDMA mandatory MRU for OFDMA EHT MU PPDU.  Should be referring to mandatory OFDMA MRU | REJECTED.  This bullet talks about AP mandatory support.  Based on Motion 137, SP278:  “For AP, it is mandatory to support the following:  •In OFDMA Tx and non-OFDMA Tx and Rx, any preamble puncturing pattern that needs to be supported for mandatory MRU in non-OFDMA as specified in subclause 36.3.2.3.3 in D0.1.”  Only non-OFDMA patterns are mandatory. |

# CIDs 2618, 2619

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2618 | 36.1.1 | 156 | 8 | Transmission of an EHT MU PPDU to multiple users with a 4"e EHT-LTF and 0.8 us GI duration on the EHT-LTF and Data field OFDM symbols. | Addition "to multiple users" is a condition not mentioned in SFD.  Pls check if this is correct (excludes single user EHT MU PPDU) | REJECTED.  SU support in Tx and Rx is optional for AP and STA and mentioned on P155L4.  This bullet is additional optional MU support on the AP side. |
| 2619 | 36.1.1 | 157 | 51 | Transmission of an EHT MU PPDU to multiple users with a 4"e EHT-LTF and 0.8 us GI duration on the EHT-LTF and Data field OFDM symbols. | "Addition ""to multiple users"" is a condition not mentioned in SFD.  Pls check if this is correct (excludes single user EHT MU PPDU)" | REJECTED.  SU support in Tx and Rx is optional for AP and STA and mentioned on P155L4.  This bullet is additional optional MU support on the STA side. |

# CID 2620

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2620 | 36.1.1 | 157/158 | 57/27 | Repeated sections for 20MHz operating STA | "Merge the double sections:  A 20 MHz-only non-AP EHT STA shall support the following" | REJECTED.  The two sections are for 20 MHz-only non-AP EHT STA and 20 MHz operating non-AP EHT STA, respectively. They are two different categories and should be separated. |

# CID 2677

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2677 | 36.1.1 | 154 | 35 | According to [Motion 124, #SP176], the mandatory modualtion is 256QAM for non-20MHz-only STAs, and 64QAM for 20MHz-only STAs. The motion is already reflected in the "shall support" definition separately for AP and non-AP STA. Here the MCS specification for general EHT STAs is not accurate. Suggest to remove this sentence. | As in the comment. | REVISED.  This is already reflected by resolution for CID 3091:  “Add the following bullet after P154L34-35:  ‘EHT-MCSs 8 to 9 (transmit and receive) if the STA is not a 20 MHz-only non-AP STA.’ ”  Instructions to the editor:  The required changes for this CID is already reflected by resolution for CID 3091 (DCN 21/0360r5). |

# CIDs 2678, 2679, 2680

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 2678 | 36.1.1 | 156 | 37 | According to [Motion 144, #SP318 and #SP319], EHT non-AP STA beamformee shall support NDP wider than its operating BW. Add bullets in the "shall support" list after sounding feedback Nss requirement. | Add the following bullets: " - Reception of 160 MHz EHT sounding NDP in 5 GHz and 6 GHz bands if the non-AP EHT STA's operating channel width is 80 MHz. - Reception of 320 MHz EHT sounding NDP in 6 GHz band if the non-AP EHT STA's operating channel width is 80 MHz or 160 MHz. " | ACCEPTED |
| 2679 | 36.1.1 | 157 | 63 | According to [Motion 144, #SP318 and #SP319], 20-MHz operating EHT non-AP STA beamformee may support NDP wider than its operating BW. Add bullets in the "may support" list. | Add the following bullets:  "  - Reception of 40 MHz EHT sounding NDP in 2.4 GHz and 5 GHz bands.  - Recetion of 80 MHz and 160 MHz EHT sounding NDP in 5 GHz band.  " | ACCEPTED |
| 2680 | 36.1.1 | 158 | 24 | According to [Motion 144, #SP318 and #SP319], 20-MHz operating EHT non-AP STA beamformee may support NDP wider than its operating BW. Add bullets in the "may support" list. | Add the following bullets:  - Reception of 40 MHz EHT sounding NDP in 2.4 GHz, 5 GHz and 6 GHz bands.  - Recetion of 80 MHz and 160 MHz EHT sounding NDP in 5 GHz and 6 GHz bands. | ACCEPTED |

# CID 3039

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3039 | 36.1 | 158 | 24 | "If it support SST, why 20MHz operating STA doesn't support operating in any  20MHz channel but 20MHz-only STA support" | explain or add the support | REJECTED  Current SST support requirements on 20MHz-only STA and 20Mhz operation STA are is aligned with 11ax. TG discussion is needed to expand SST support capability. |