IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 20 MHz-Only Limited Capabilities | | | | | | Date: 2024-03-05 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm |  |  | [youhank@qti.qualcomm.com](mailto:youhank@qti.qualcomm.com) | | Sai Nandagopalan | Synaptics |  |  | [Sai.Nandagopalan@synaptics.com](mailto:Sai.Nandagopalan@synaptics.com) | | Rakesh Taori | Infineon |  |  | [Rakesh.Taori@infineon.com](mailto:Rakesh.Taori@infineon.com) | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for the following comments from SB1 on P802.11be D5.0:

22381

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 22381

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| --- | --- | --- |
| **CID**  **Clause**  **Page.Line** | **Comment** | **Proposed Change** |
| 22381  9.4.2.313.3  281.14 | "The 20 MHz-Only Limited Capabilities Support subfield was added in 11be D3.0. Hence, some devices might not understand the subfield. It would therefore be useful for STAs to know whether an AP supports the 20 MHz-Only Limited Capabilities or not." | "Change the last paragraph of the ""Encoding"" column from ""Reserved for an AP and a non-AP STA that is not a 20 MHz-only non-AP EHT STA."" to ""For an AP: Set to 0 if the AP supports 20 MHz-only non-AP EHT STA with 20 MHz-Only Limited Capabilities Support subfield equal to 1. Set to 1 otherwise. Reserved for a non-AP STA that is not a 20 MHz-only non-AP EHT STA.""" |

**Proposed Resolution: CIDs 22381**

REVISED

**Note to commenter:**

The proposed text change below allows APs to advertise whether the AP is capable of understanding the capabilities of 20 MHz-only non-AP EHT STA as suggested by the commenter.

**Instruction to TGbe Editor:**

Implement the proposed text updates for CID 22381 in <https://mentor.ieee.org/802.11/dcn/22/11-24-0328-00-00be-sb1-20mhz-only-limited-capabilities.docx>

**Proposed Text Updates: CIDs 22381**

*Instruction to TGbe Editor: Add the following at 11be D5.0 P281L6:*

**9.4.2.313.3 EHT PHY Capabilities Information field**

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|  |  |  |
| --- | --- | --- |
| **Subfield** | **Definition** | **Encoding** |
| 20 MHz-Only Limited Capabilities Support | For a 20 MHz-only non-AP STA, indicates whether the STA can announce the optional support of multiple RUs, DL/UL MU-MIMO related capabilities, and SU/ MU Beamformee related capabilities.  For an AP, indicates whether the AP is capable of understanding the optional support of multiple RUs, DL/UL MU-MIMO related capabilities, and SU/ MU beamformee related capabilities, indicated by a 20 MHz-only non-AP EHT STA that sets the 20 MHz-Only Limited Capability Support subfield to 1. | For a 20 MHz-only non-AP STA:  Set to 1 if the STA can announce the optional support of multiple RUs, DL/UL MU- MIMO related capabilities, and SU/MU Beamformee related capabilities.  Set to 0 otherwise.  For an AP:  Set to 1 if the AP is capable of understanding the capabilities of a 20 MHz-only non-AP EHT STA with 20 MHz-Only Limited Capabilities Support subfield equal to 1.  Set to 0 otherwise.  Reserved for a non-AP STA that is not a 20 MHz-only non- AP EHT STA. |

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