IEEE P802.11
Wireless LANs

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| LB266 CR for the Unit of Transmit Power |
| Date: 2022.10.26 |
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Abstract

This submission contains the proposed comment resolutions for the following two CIDs in 22/0971 IEEE 802.11be LB266 comments, for the subclause 36.3.16 transmit requirements for PPDUs sent in response to a triggering frame.

* These two CIDs were deferred when the CR document 22/1063r1 was presented.

CIDs 10951, 10952.

Revision Notes

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| --- | --- |
| R0 | Initial revision |

## CID 10951 &10952

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| Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 736.58**(CID 10951)** | 36.3.16.2 | To be consistent with the description of the AP Tx Power in 9.3.1.22.1, "in dBm" should be "in dBm/20 MHz". | as in comment | REVISED.Agree with the commenter. In addition to the suggested revision, the wording in NOTE 1 is also updated.***Instructions to the editor:*** **Please make the changes as shown under CID 10952 in 11-22/1813r0.** |
| 737.01 **(CID 10952)** | 36.3.16.2 | To be consistent with the description of the AP Tx Power in 9.3.1.22.1, "in dBm" should be "in dBm/20 MHz". | as in comment | ACCEPTED. |

***Instructions to the editor: please make the following changes to Page 784, Line 37 in the subclause 9.3.1.22.4 EHT Variant User Info field in D2.2 as shown below:***

$Tx\_{pwr}^{AP}$ is the AP’s transmit power, normalized to 20 MHz and expressed in dBm/20 MHz, as indicated by the AP Tx Power subfield of the Common Info field in the Trigger frame, the encoding of which is specified in 9.3.1.22 (Trigger frame format), or the AP Tx Power subfield of the TRS Control field, the encoding of which is specified in 9.2.4.6a.1 (TRS Control).

NOTE 1— $Tx\_{pwr}^{AP}$ and $Rx\_{pwr}$ are normalized to 20 MHz and expressed indBm/20 MHz, while $Tx\_{pwr}^{STA}$ and $TargetRx\_{pwr}$ are expressed in dBm without normalization.

Discussion:

**The related text in D1.0 is shown below:**

$Tx\_{pwr}^{AP}$ is the AP’s transmit power, in units of dBm/20 MHz, as indicated by the AP Tx Power subfield of the Common Info field in the Trigger frame, the encoding of which is specified in 9.3.1.22 (Trigger frame format), or the AP Tx Power subfield of the TRS Control field, the encoding of which is specified in 9.2.4.6a.1 (TRS Control).

…

$Rx\_{pwr}$ is the receive signal power, in units of dBm/20 MHz, at the antenna connector of the STA of the triggering PPDU.

…

NOTE 1— $Tx\_{pwr}^{AP}$ and $Rx\_{pwr}$ are in the units of dBm/20 MHz, while $Tx\_{pwr}^{STA}$ and $TargetRx\_{pwr}$ are in the units of dBm.

**Comments received in CC36:**

According to the resolution of CC36 CID 7255 (https://mentor.ieee.org/802.11/dcn/21/11-21-1170-02-00be-cc36-cr-for-transmit-requirements-for-ppdus-sent-in-response-to-a-triggering-frame.docx), “dBm/20MHz” is changed into “normalized to 20 MHz and expressed in dBm” in 802.11be D2.0. The reason is that the unit of power should be dBm instead of dBm/xx MHz.

**The related text in D2.0 is shown below:**

$Tx\_{pwr}^{AP}$ is the AP’s transmit power, normalized to 20 MHz and expressed in dBm, as indicated by the AP Tx Power subfield of the Common Info field in the Trigger frame, the encoding of which is specified in 9.3.1.22 (Trigger frame format), or the AP Tx Power subfield of the TRS Control field, the encoding of which is specified in 9.2.4.6a.1 (TRS Control).

…

$Rx\_{pwr}$ is the receive signal power, normalized to 20 MHz and expressed in dBm, at the antenna connector of the STA of the triggering PPDU.

…

NOTE 1— $Tx\_{pwr}^{AP}$ and $Rx\_{pwr}$ are normalized to 20 MHz and expressed in dBm, while $Tx\_{pwr}^{STA}$ and $TargetRx\_{pwr}$ are expressed in dBm without normalization.

**Comments received in LB266:**

In LB266, some member think it is better to keep using dBm/20 MHz to be consistent with the wording in other subclauses and in 802.11ax-2021. People think this is reasonable. After discussion, the resolution in this CR document is using “normalized to 20 MHz and expressed in dBm/20 MHz”.

Discussion ends.