IEEE P802.11  
Wireless LANs

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| CR for CID 3435 | | | | |
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Abstract

##### This submission present proposed resolutions for the following 1 CIDs:

3435

##### The proposed changes are based on 802.11REVme\_D2.0.

##### Revision history:

##### r0 – initial version

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 3435 | 26.10.3.4 | 3940. 58 | Equation (26-7) looks dodgy, because it adds dBm + dBm (not dBm + dB) | Make sure the equation is dimensionally sound | **REVISED**  The units in Table 27-23 of 802.11REVme D2.0 in the meaning column are not correct. Delete “dBm” from the entries in the column. |

***Discussion***

The Equation (26-7) shows the addition of two quantities, each is in the unit of dBm. The result, PSR\_INPUT, has the unit of mW^2 in linear domain or (dBm + dBm) in logarithmic domain. Both of these units are not commonly used and using them may cause confusion. PSR\_INPUT is used to pick a PSR value in Table 27-23 for the SR subfield in TF (see Figure 1).

The PSR values are used for setting the Tx power upper bound as shown in Figure 2. In the expression:



The unit on the right side is dBm (= (dBm + dBm) – dBm). Therefore, the expression in Equation (26-7) is correct unit-wise. However, since the PSR\_INPUT is used to directly compare the values in Table 27-23 as stated in subclause 26.10.3.4 (see Figure 1), the unit (dBm) shown in Table 27-23 is not correct (see Figure 3 below).

Therefore, we suggest remove “dBm” in Table 27-23. The units of the values in the “meaning” column in Table 27-23 are implied by the expression of PSR\_INPUT and the description in subclause 26.10.3.4 is complete and consistent; hence the units are not necessary.

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***Figure 1. Text from Page 3940 of D2.0***

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***Figure 2. Text from Page 3939 of D2.0***

***Table

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***Figure 3. Text from Page 4077 of D2.0***