### **IEEE P802.11 Wireless LANs**

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| PDT RSSI in the Sensing Measurement Report | | |
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**Introduction**

This document provides proposed draft text for IEEE 802.11bf draft.

The following Straw Poll applies to this PDT:

**Straw Poll**

* Do you agree to include the per-RX-Antenna RSSI in the Sensing Measurement report?
* Unanimous support

**Straw Poll**

* Do you agree to specify a ±𝟓 dB RSSI accuracy requirement for the per-RX-Antenna RSSI in the Sensing Measurement report?
* Unanimous support

**Discussion**

There was strong straw poll support for adding per-RX-Antenna RSSI in the Sensing Measurement report. There was some discussion on the range of RSSI values supported, so this PDT selected the minimum value to be reported as dBm, which is the receiver sensitivity of a 20 MHz PPDU.

***TGbf editor: Please make the following change in subclause 9.4.1.75.4:***

The Sensing Measurement report includes the per-RX-Antenna receive signal strength indicator (RSSI) values. For each receive antenna a single octet is reported. The RSSI value for the antenna is specified in Table 9-A.

*Table 9-A – Per-RX-Antenna RSSI Values*

|  |  |
| --- | --- |
| **Per-RX-Antenna subfield value** | **Per-RX-Antenna RSSI value (dBm)** |
| 0 |  |
| 1 |  |
| 2 |  |
|  |  |
| 61 |  |
| 62 |  |
| 63-255 | Reserved |

***TGbf editor: Please add the following rows to Table 9-127h—Sensing Measurement Report information:***

|  |  |  |
| --- | --- | --- |
| Field | Size (bits) | Meaning |
|  |  |  |
|  | 8 | RSSI at receive antenna 1 |
|  | 8 | RSSI at receive antenna 2 |
|  |  |  |
|  | 8 | RSSI at receive antenna |

***TGbf editor: Please make the following change in subclause 11.55.1.2:***

The per-RX-Antenna RSSI reported in the Sensing Measurement report shall be in the range of 0 to 62.

The per-RX-Antenna RSSI reported in the Sensing Measurement report shall meet the accuracy requirement of dB (95 percent confidence interval) between the range of dBm and dBm, which is aligned with the Beacon RSSI accuracy as specified in subclause 11.43.