IEEE P802.11
Wireless LANs

|  |
| --- |
| Clarifications on Beaon RSSI |
| Date: 2014-07-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Youhan Kim | Qualcomm |  |  | youhank@qca.qualcomm.com |
| Menzo Wentink | Qualcomm |  |  | mwentink@qti.qualcomm.com |
| Carlos Aldana | Qualcomm |  |  | caldana@qca.qualcomm.com  |

Abstract

This document proposes some clarifications for Beacon RSSI. Please see 14/0890 for further details on discussion.

**REVISION NOTES:**

R0: initial

R1: Clarified that the averaging of Beacon RSSI across multiple receive chains is done in linear domain.

**Discussion:**

Please see IEEE 802.11-14/0890r1 for discussions on this topic.

**Proposed changes**

***Editor: Update P802.11REVmc D3.0 P512L54 as follows:***

**Table 6-7.ESS Link Parameter Set**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid Range** | **Description** |
| BeaconRSSI | Integer | -100 to 40 | The received signal strength in dBm of Beacon frames received on the channel, averaged (in linear domain) over all active receive chains. This may be time-averaged over recent history by a vendor-specific smoothing function. BeaconRSSI has an accuracy of ± 5 dB (95% confidence interval) within the specified dynamic range of the receiver. |