IEEE P802.11
Wireless LANs

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| Followup liaison response to 3GPP R4-164767 |
| Date: 2016-11-08 |
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Abstract

This document is a reply to the liaison from 3GPP RAN R4-164767.

R1 adds references to BeaconRSSID and PHY accuracy specifications in IEEE Std 802.11-2016, 802.11ah and 802.11ax draft text.

The 3rd Generation Partnership Project (3GPP) had submitted a letter to the IEEE 802.11 Working Group (WG). The letter is documented in IEEE 802.11-16/0772r0.

# Summary of the letter from 3GPP

**1. Overall Description:**

* In order to verify E-UTRAN-WLAN measurement reporting delay, RAN4 has agreed two test cases: one for E-UTRAN FDD-WLAN interworking case another one for E-UTRAN TDD-WLAN interworking case [3GPP R4-163519]. These tests will be introduced in 3GPP TS 36.133, Rel-13. The corresponding conformance tests will be defined by RAN5 in their conformance test specifications.
* Another set of test cases to define WLAN RSSI measurement accuracy tests were presented for approval in [3GPP R4-163518]. But due to lack of consensus in RAN4, these tests cases were not agreed. However RAN4 recommends that WLAN RSSI accuracy tests are defined in at least IEEE 802.11 specifications.
* RAN4 therefore requests IEEE 802.11 WG and WIFI Alliance to specify WLAN RSSI measurement accuracy test cases in their specifications.

**2. Actions:**

* **ACTION:** RAN4 kindly requests IEEE 802.11 WG and Wi-Fi Alliance to specify WLAN RSSI measurement accuracy test cases in their specifications.

# Summary of this reply letter

Peter Ecclesine developed this reply letter for approval by the IEEE 802.11 Working Group.

To: 3GPP TSG-RAN WG4 c/o Muhammad Kazmi@ericsson.com

CC: WiFi Alliance, RAN2

Subject: Response to LS on RSSI accuracy test cases

Date: 2016-11-11

Dear Muhammad,

We would like to thank 3GPP TSG-RAN Working Group (WG) 4 for its letter requesting the following from the IEEE 802.11 WG:

“RAN4 kindly requests IEEE 802.11 WG and Wi-Fi Alliance to specify WLAN RSSI measurement accuracy test cases in their specifications.”

The 802.11 Working Group has revised our IEEE Std 802.11-2012, and expect the new base standard to be published by yearend. IEEE Std 802.11-2016 specifies Beacon RSSI in clause 11.45 and in each PHY clause specifies accuracy for measurement of receive power. Draft amendments P802.11ah Sub 1 GHz License Exmpt Operation and 802.11ax Enhancements for High Efficiency WLAN each specify accuracy for measurement of receive channel power.

Per the IEEE standards operating manual http://standards.ieee.org/develop/policies/opman/sb\_om.pdf

IEEE standards are classified as:

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Standards: documents with mandatory requirements.

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Recommended practices: documents in which procedures and positions preferred by the IEEE are presented.

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Guides: documents in which alternative approaches to good practice are suggested but no clear-cut recommendations are made.

We believe RSSI accuracy test cases would be developed by IEEE 802 in a recommended practice. This requires the submission of a Project Authorization Request <http://standards.ieee.org/faqs/pars.html> and associated IEEE 802 Criteria for Standards Development submission.

Please kindly provide the information for the PAR and CSD and IEEE 802.11 will work with you to initiate the project.

Sincerely,

Adrian Stephens
IEEE 802.11 Working Group Chair

**References:**

11-15-1429-00-0000-liaison-response-to-3gpp-r4-156870.docx

11-15-1430-02-0000-liaison-response-to-3gpp-r4-156886.docx