IEEE 802.11 AANI SC

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| Proposed LS to 3GPP/WFA/WBA/WifiForward on the studies done regarding benchmarking of 802.11ax capabilities | | |
| Date: 20181119 | | |
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Abstract

*This document contains a draft Liaison Statement (LS) from IEEE 802.11 WG to several external groups (3GPP, WFA, WBA) who have interest in the performance and capability of 802.11 based technologies with respect to IMT-2020 eMBB evaluation criteria. The draft LS contains a summary of the performance evaluations that have been received by 802.11 and provides 802.11’s views on the suitability of IEEE 802.11ax based devices to provide IMT-2020 eMBB RAT support.*

R7 – modifications made during the AANI SC session, Monday, November 12, PM2 – as shown by redlines.

R8 – clean version of R7 with all changes accepted.

R9 – Adds links to references and updates document versions to reflect reference date changes.

## Proposed Liaison Statement (LS)

To: 3GPP, 3GPP SA TSG

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SUBJECT: IEEE 802.11 study results benchmarking 802.11ax capabilities to meet Indoor Hotspot test environment defined by IMT-2020

DATE: 12 November 2018

**Discussion:**

IEEE 802.11 WG would like to kindly inform you of the results of the studies documented in [2], [3], [4], and [5] regarding benchmarking of IEEE 802.11ax [1] capabilities in Indoor Hotspot environment defined by IMT-2020 ([6], [7]). IEEE 802.11WG believes these studies conclusively show that:

* 802.11ax [1] meets the salient IMT-2020 requirements for the Indoor Hotspot environment, including mobility.

IEEE 802.11 WG invites you to consider these results in the context of ongoing work regarding WLAN interworking with 3GPP systems, and looks forward to a continued, productive exchange of information.

Date of Next IEEE 802.11 WG Meetings:

802 Interim: 13-18 January 2019, in St. Louis, Missouri, USA

802 Plenary: 10-15 March 2019, in Vancouver, Canada

Sincerely,

Dorothy STANLEY

IEEE 802.11 Working Group Chair

# References

1. IEEE P802.11ax™/D3.0, “Draft Standard for Information technology Tele-communications and information exchange between systems Local and metropolitan area networks— Specific requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications; Amendment 6: Enhancements for High Efficiency WLAN” – June 2018

1. [IEEE 802.11-18/1573r7](https://mentor.ieee.org/802.11/dcn/18/11-18-1573-07-AANI-summary-of-802-11ax-self-evaluation-for-imt-2020-embb-indoor-hotspot-and-dense-urban-test-environments.docx), Summary of 802.11ax Self Evaluation for IMT-2020 EMBB Indoor Hotspot, November, 2018

1. [IEEE 802.11-18/1240r4](https://mentor.ieee.org/802.11/dcn/18/11-18-1240-04-AANI-802-11ax-for-imt-2020-embb-indoor-hotspot.pptx), Benchmarking of 802.11ax against eMBB Indoor Hotspot requirements using IMT-2020 simulation methodology, November, 2018

1. [IEEE 802.11-18/0915r3](https://mentor.ieee.org/802.11/dcn/18/11-18-0915-03-AANI-benchmarking-of-802-11ax-against-embb-indoor-hotspot-requirements-using-imt-2020-simulation-methodology.pptx), Benchmarking of 802.11ax against eMBB Indoor Hotspot requirements using IMT-2020 simulation methodology, November, 2018

1. [IEEE 802.11-18/0517r2](https://mentor.ieee.org/802.11/dcn/18/11-18-0517-02-AANI-802-11ax-for-imt-2020-embb-indoor-hotspot-and-dense-urban.pptx), 802.11ax for IMT-2020 EMBB Indoor Hotspot and Dense Urban, September, 2018

1. [Report ITU-R M.2410-0 (11/2017)](https://www.itu.int/dms_pub/itu-r/opb/rep/R-REP-M.2410-2017-PDF-E.pdf), Minimum requirements related to technical performance for IMT-2020 radio interface(s)

1. [Report ITU-R M.2412-0 (10/2017)](https://www.itu.int/dms_pub/itu-r/opb/rep/R-REP-M.2412-2017-PDF-E.pdf), Guidelines for evaluation of radio interface technologies for IMT-2020