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| Proposed LS to 3GPP/WFA/WBA/WifiForward on the studies done regarding benchmarking of 802.11ax capabilities | | |
| Date: 20180712 | | |
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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, WifiForward) 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.*

## Proposed liaison letter

To: 3GPP, 3GPP SA TSG; 3GPP RAN TSG

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WiFiForward ?

SUBJECT: IEEE 802.11 study results benchmarking 802.11ax capabilities to meet Indoor Hotspot and Dense Urban test environments defined by IMT-2020

DATE: 14 September 2018

**Discussion:**

IEEE 802.11 WG requests you to kindly consider the results of the studies documented in [1], [2], [3], and [4] regarding benchmarking of IEEE 802.11ax capabilities in Indoor Hotspot and Dense Urban test environments defined by IMT-2020 ([5], [6]). IEEE 802.11WG believes these studies conclusively show that:

* 802.11ax in its currently standardized form meets the salient IMT-2020 requirements for the Indoor Hotspot environment, including mobility.
* 802.11ax is expected to meet the IMT-2020 requirements for the Dense Urban environment.

IEEE 802.11 WG requests that 3GPP SA TSG and/or 3GPP RAN TSG provide their assessment of the results provided and looks forward to a continued, productive exchange of information.

Date of Next IEEE 802.11 WG Meetings:

802 Plenary: 11-16 November 2018 in Bangkok, Thailand.

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

Sincerely,

Dorothy STANLEY

IEEE 802.11 Working Group Chair

# References

1. IEEE 802.11-18/1573r0, Summary of 802.11ax Self Evaluation for IMT-2020 EMBB Indoor Hotspot and Dense Urban Test Environments, September, 2018
2. IEEE 802.11-18/1240r2, Benchmarking of 802.11ax against eMBB Indoor Hotspot requirements using IMT-2020 simulation methodology, July, 2018
3. IEEE 802.11-18/0915r1, Benchmarking of 802.11ax against eMBB Indoor Hotspot requirements using IMT-2020 simulation methodology, May, 2018
4. IEEE 802.11-18/0517r1, 802.11ax for IMT-2020 EMBB Indoor Hotspot and Dense Urban, March, 2018
5. Report ITU-R M.2410-0 (11/2017), Minimum requirements related to technical performance for IMT-2020 radio interface(s)
6. Report ITU-R M.2412-0 (10/2017), Guidelines for evaluation of radio interface technologies for IMT-2020