IEEE 802.11 Coexistence SC

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| Proposed LS to 3GPP RAN4 on certain channel combinations in LAA |
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Abstract

*This document contains a proposal for consideration by IEEE 802.11 Coexistence SC, for a Liaison Statement from IEEE 802 to 3GPP RAN4 on certain channel combinations defined for LAA in 5 GHz*

## Proposed liaison letter

TO:

* Xutao Zhou, 3GPP TSG RAN WG4 Chair, xutao.zhou@samsung.com

CC:

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SUBJECT: IEEE 802 LS to 3GPP RAN4 on certain channel combinations for LAA in 5GHz

DATE: 12 July 2018

Dear Xutao Zhou,

Thank you for supporting the ongoing cooperation between IEEE 802 and 3GPP RAN4 in relation to coexistence between LAA and 802.11 systems.

The LAA specification includes a clause specifying that for LAA multi-carrier transmissions with four or less carriers, the maximum frequency separation between the centre frequencies of these carriers will be less than or equal to 62MHz, unless the absence of 802.11 systems can be guaranteed in these carriers. This clause ([1]) is important to promote fair coexistence between multi-carrier transmissions of LAA and 802.11 systems.

However, we notice that 3GPP RAN4 has defined carrier aggregation schemes for LAA where the maximum separation between the centre frequencies of carriers is greater than 62MHz. Some example aggregation schemes are CA\_2A-46A-46D, CA\_4A-46A-46D, CA\_46A-46D-66A ([2]).

IEEE 802 requests that 3GPP RAN4 clarify the following:

1. Will the cited carrier aggregation schemes for LAA only be used in the guaranteed absence of 802.11 systems?
2. If the absence of 802.11 systems on these carriers cannot be guaranteed, how does 3GPP RAN4 intend to adhere to the cited clause in the LAA specification, in order to ensure fair coexistence between LAA and 802.11?

IEEE 802 looks forward to a continued, productive exchange with 3GPP RAN4 on this and other matters of interest to both 3GPP RAN4 and IEEE 802.

For your information, the next two IEEE 802 meetings are 9‑14 September 2018 in HI, USA and 11-16 November 2018 in Bangkok, Thailand.

Regards,

/s/ Paul Nikolich

Paul Nikolich, Chairman, IEEE 802 Executive Committee

# References

1. 3GPP TS 36.300, Release 14
2. 3GPP TS 36.101 V15.2.0