IEEE P802.11  
Wireless LANs

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| 802.11  Liaison statement from 3GPP RAN4 on Certain Channel Combinations in 5GHz for LAA | | | | |
| Date: 2018-09-07 | | | | |
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**Abstract**

This document contains a reply liaison statement from 3GPP RAN WG4 to the IEEE 802.11 WG regarding certain channel combinations for LAA in 5GHz. The liaison sent to 3GPP RAN4 is in <https://mentor.ieee.org/802.11/dcn/18/11-18-1305-02-coex-proposed-ls-to-3gpp-ran4-on-certain-channel-combinations-in-laa.docx> .

The liaison is embedded below and reproduced on the following pages.



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| **3GPP TSG-RAN WG4 Meeting #88 R4-1811880**  **Gothenburg, Sweden, August 20th -24th 2018**  **Title:** Reply LS to IEEE 802.11 working group in relation to certain channel combinations for LAA in 5GHz  **Response to:** R4-1809644, IEEE 802.11 Working Group Liaison Statement to 3GPP RAN4 in relation to certain channel combinations for LAA in 5GHz, IEEE 802.11  **Release:** Rel-13/Rel-14/Rel-15  **Work Item:** LTE\_LAA  **Source:** RAN WG4  **To:** IEEE 802.11 Working group  **Cc:** RAN WG1, RAN  **Contact Person:** Name: Imadur Rahman, Ericsson **Tel. Number:** +46761441011  E-mail Address: **imadur.rahman@ericsson.com**  **1. Overall Description:**  RAN4 would like to thank IEEE 802.11 Working group for the LS in relation to certain channel combinations for LAA in 5GHz. RAN4 has discussed fair coexistence between IEEE 802.11 technologies and LAA in detail and agreed on the following:  The LAA DL channel access structure for Type B multi-carrier transmission shall be updated to be applicable only to sets of carriers that are restricted to be a subset of the same sets that were defined for conversion of Type 1 to Type 2 LBT on the UL during Rel-14. This will ensure fair coexistence between LAA and IEEE 802.11n/11ac irrespective of the presence or absence of IEEE 802.11n/11ac.  If the maximum frequency separation between the center frequencies of the outermost two carriers on which LAA transmissions are performed is ≤ 62MHz, then the Type B multi-carrier CCA scheme is allowed.  Based on this understanding, RAN4 also proposed that RAN2 removes the following sentence from Section 5.7 of TS 36.300:  *“If the absence of IEEE802.11n/11ac devices sharing the carrier cannot be guaranteed on a long term basis (e.g., by level of regulation), and for this release if the maximum number of unlicensed channels that E-UTRAN can simultaneously transmit on is equal to or less than 4, the maximum frequency separation between any two carrier center frequencies on which LAA SCell transmissions are performed should be less than or equal to 62MHz. The UE is required to support frequency separation in accordance with TS 36.133 [21].”*  **2. Actions:**  To IEEE 802.11 working group  **ACTION:** None.  **3. Date of Next RAN4 Meetings:**  RAN4#88bis 8-12 October 2018 Chengdu, China  RAN4#89 12-16 November 2018 Spokane, USA |