**3GPP TSG-RAN WG4 Meeting #97-e R4-2016679**

**Electronic Meeting, 02 November – 13 November 2020**

**Source:** Ericsson, Verizon, MediaTek

**Title:** TP for TR 37.817-01-01: CA\_n5(2A)

**Agenda item:** 10.1.2

**Document for:** Approval

# 1. Introduction

This contribution is a text proposal for TR 37.817-01-01 to include CA\_n5(2A) as defined in WID [1].

# 2. Text Proposal

# ---Start of changes---

## 6.x CA\_2DL\_n5(2A)\_1UL\_n5A

### 6.x.1 Channel bandwidths per operating band for CA

Table 6.x.1-1: Supported bandwidth combinations for CA\_n5(2A)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| NR CA Configuration | Uplink Configurations | Channel bandwidths for carrier  (MHz) | Channel bandwidths for carrier  (MHz) | Channel bandwidths for carrier  (MHz) | Channel bandwidths for carrier  (MHz) | Maximum  Aggregated bandwidth  (MHz) | Bandwidth combination set |
| CA\_n5(2A) | - | 5,10,15,20 | 5,10,15, 20 |  |  | 25 | 0 |

### 6.x.2 UE co-existence studies

There are no co-existence issues for this combination.

### 6.x.3 REFSENS

Below analysis assumptions are used in the REFSENS analysis.

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Value** | **Unit** |
| CIM5 | -70 | dBc |
| n5 filter T/R isolation | 53 | dB |
| Front-end loss | 4 | dB |
| Thermal noise at n5 RX ANT port | -165 | dBm/Hz |
| Transceiver effective phase noise | -140 | dBc/Hz |
| SNR requirement for QPSK | -1 | dB |

REFSENS for CA\_n5(2A) need to be added in below table of TS 38.101-1.

Table 7.3A.2.2-1: Intra-band non-contiguous CA with one uplink configuration for reference sensitivity

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CA configuration | SCS  (kHz) | Aggregated channel bandwidth (PCC+SCC) | Wgap / [MHz] | UL PCC allocation | ΔRIBNC (dB) | Duplex mode |
| CA\_n5(2A) | 15 | 75RB + 25RB | Wgap = 5.0 | 55 | 6.3 | FDD |
| NOTE 5: Refers to the UL resource blocks shall be located as close as possible to the downlink operating band but confined within the transmission. | | | | | | |

---End of changes---

# Reference

[1] RP-201571, “Revised WID: Rel-17 NR intra band Carrier Aggregation for xCC DL/yCC UL including contiguous and non-contiguous spectrum (x>=y)”, Ericsson