3GPP TSG-RAN WG4 Meeting #97-e R4-2014035

Electronic Meeting, 2 - 13 November 2020

**Source:** Huawei, HiSilicon, Vodafone

**Title:** TP to TR 37.717.21-11: Addition of DC configuration for DC\_20-32\_n1

**Agenda item:** 10.4.2

**Document for:** Approval

# Background

This contribution provides text proposal on the EN-DC configuration DC\_20A-32A\_n1A as defined in WID on Dual Connectivity of 2 band LTE (2DL/1UL) and 1 NR band (1DL/1UL) [1].

# Text Proposal

##### ---Start of changes---

## 5.x DC\_20-32\_n1

5.x.1 Configurations for DC

Table 5.x.1-1: Inter-band EN-DC configurations (three bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_20A-32A\_n1A | DC\_20A\_n1A |

5.x.2 Co-existence studies

Co-existence analysis from DC\_20\_n1 shows that IMD5 of the dual UL may fall into the DL of band 32.

5.x.3 ∆TIB and ∆RIB values

For DC\_20-32\_n1, the ΔTIB,c and ΔRIB,c values are reused from the LTE combination CA\_1-20-32, and are given in the tables below.

Table 5.x.3-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_20-32-n1 | 20 | 0.3 |
| n1 | 0.5 |

**Table 5.x.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_20-32-n1 | 20 | 0 |
| 32 | 0 |
| n1 | 0 |

5.x.4 REFSENS requirements

**Table 5.x.4-1: MSD test points for Scell due to dual uplink operation for EN-DC in NR FR1 (three bands)**

| NR or E-UTRA Band / Channel bandwidth / NRB / MSD | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| EN-DC Configuration | EUTRA / NR band | UL Fc  (MHz) | UL/DL BW  (MHz) | UL  LCRB | DL Fc (MHz) | MSD  (dB) | IMD order |
| DC\_20A-32A\_n1A | n1 | 1950.5 | 5 | 50 | 2140.5 | N/A | N/A |
| 20 | 852.5 | 5 | 25 | 811.5 | N/A | N/A |
| 32 | N/A | 5 | N/A | 1459.5 | 4.0 | IMD5 |

##### ---End of changes---

# Reference

[1] RP-201728, “WID revision Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR band (1DL/1UL)”, Huawei, RAN#89-e