**3GPP TSG-RAN WG4 Meeting #100-e Rev 1 of R4-2111754**

**Electronic Meeting, 16th – 27th August 2021**

**Source:** AT&T

**Title:** TP for TR 37.717-21-11 Addition of DC\_5-30\_n77

**Agenda item:** 8.15.2

**Document for:** Approval

# 1. Introduction

A text proposal for TR 37.717-21-11 to add DC\_5A-30A\_n77A.

# 2. Text Proposal

---Start of changes---

## 5.X DC\_5-30\_n77

### 5.X.1 Configurations for DC

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

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_5A-30A\_n77A | DC\_5A\_n77A  DC\_30A\_n77A |

### 5.X.2 Co-existence studies

Co-existence studies of this 3DL/2UL DC configuration are already covered in the constituent fallback modes. It can be seen that:

- IMD3 products are produced by Band 5 and n77 that might fall in Rx of band 30.

- IMD3 and IMD5 products are produced by Band 30 and n77 that might fall in Rx of band 5.

### 5.X.3 ∆TIB and ∆RIB values

For DC\_5-30\_n77, the ΔTIB,c and ΔRIB,c values are given in the tables below that reused the values for CA\_n5-n30-n77.

Table 5.X.3-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_5-30\_n77 | 5 | 0.6 |
| 30 | 0.3 |
| n77 | 0.8 |

Table 5.X.3-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_5-30\_n77 | 5 | 0.2 |
| 30 | 0 |
| n77 | 0.5 |

### 5.X.4 Reference sensitivity exceptions

Table 5.X.4-1 shows the required MSD levels for the DC configuration. The required MSD values are derived from CA-n5A-n30A-n77A.

Table 5.X.4-1: Reference sensitivity exceptions for Scell due to dual uplink operation for EN-DC in NR FR1 (three bands)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| E-UTRA and NR 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\_5A-30A\_n77A | 5 | 835 | 5 | 25 | 880 | 15.2 | IMD34 |
| 30 | 2310 | 5 | 25 | 2355 | N/A | N/A |
| n77 | 3740 | 10 | 50 | 3740 | N/A | N/A |
| 5 | 835 | 5 | 25 | 880 | N/A | N/A |
| 30 | 2310 | 5 | 25 | 2355 | 13.2 | IMD311 |
| n77 | 4025 | 10 | 50 | 4025 | N/A | N/A |
| NOTE 4: This band is subject to IMD5 also which MSD is not specified.  NOTE 11: The MSD test points cannot be verified for the band combination in US due to the Band n77 frequency range restriction. | | | | | | | |

---End of changes---

# References