**3GPP TSG-RAN WG4 Meeting #97-e Rev. 2 of R4-2015227 Online, 2nd Nov. 2020 – 13th Nov. 2020**

**Source:** Nokia, ZTE

**Title:** TP for 37.717-21-11 to introduce DC\_28A-66A\_n7A

**Agenda Item:**  10.4.2 [DC\_R17\_2BLTE\_1BNR\_3DL2UL-Core]

**Document for:** Approval

# 1 Introduction

This contribution is a TP for TR 37.717-21-11 to introduce DC\_28A-66A\_n7A.

# 2 Text Proposal

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of the TP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## 5.x DC\_28-66\_n7

5.x.1 Configurations for DC

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

| DC  Configuration | Uplink DC  configuration |
| --- | --- |
| DC\_28A-66A\_n7A | DC\_28A\_n7A DC\_66A\_n7A |
|  | |

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

Co-existence studies have been performed for lower order combinations of DC\_28A\_n7A and DC\_66A\_n7A, where:

- No IMD product caused by DC\_28A\_n7A fall into own Rx of band 66.

- 2nd IMD product caused by DC\_66A\_n7A may fall into own Rx of band 28.

5.x.3 ∆TIB and ∆RIB values

Values are reused from CA including same bands as given in 36.101.

Table 5.x.3-1: ΔTIB,c

| Inter-band DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_28-66\_n7 | 28 | 0.6 |
| 66 | 0.5 |
| n7 | 0.5 |

Table 5.x.3-2: ΔRIB

| Inter-band DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_28-66\_n7 | 28 | 0.2 |
| 66 | 0.5 |
| n7 | 0.5 |

5.x.4 Reference sensitivity exceptions

Based on co-existence analysis it is found that MSD is needed due to 2nd IMD falling into own Rx band of 28. Therefor additional MSD is needed defined in Table 7.3B.2.3.5.2-1 of 38.101-3.

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| EN-DC  Configuration | EUTRA or NR band | UL Fc  (MHz) | UL/DL BW  (MHz) | UL  LCRB | DL Fc (MHz) | MSD  (dB) | IMD order |
| DC\_28A-66A\_n7A | 28 | 735 | 5 | 25 | 790 | 27.6 | IMD2 |
| 66 | 1715 | 5 | 25 | 2115 | N/A | N/A |
| n7 | 2505 | 5 | 50 | 2625 | N/A | N/A |
|  | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of the TP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# 3 References