**3GPP TSG-RAN WG4 Meeting #97-e R4-2015225 Online, 2nd Nov. 2020 – 13th Nov. 2020**

**Source:** Nokia

**Title:** TP for 37.717-21-11 to introduce DC\_5A-7A\_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\_5A-7A\_n7A.

# 2 Text Proposal

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

## 5.x DC\_5-7\_n7

5.x.1 Configurations for DC

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

| DC  Configuration | Uplink DC  configuration |
| --- | --- |
| DC\_5A-7A\_n7A | DC\_5A\_n7A DC\_7A\_n7A2 |
| NOTE 2: Only single switched UL is supported | |

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

Co-existence studies have been performed for lower order combinations.

Co-existence analysis for DC\_5\_n7 UL shows that 3rd and 5th IMD may fall in DL band 5.

Co-existence analysis for DC\_7\_n7 UL is not needed since only switched UL is supported.

5.x.3 ∆TIB and ∆RIB values

Table 5.x.3-1: ΔTIB,c

| Inter-band DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_5-7\_n7 | 5 | 0.5 |
| 7 | 0.3 |
| n7 | 0.3 |

Table 5.x.3-2: ΔRIB

| Inter-band DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_5-7\_n7 | 5 | 0 |
| 7 | 0 |
| n7 | 0 |

5.x.4 Reference sensitivity exceptions

Based on co-existence studies additional MSD is needed defined in Table 7.3B.2.3.5.2-1 of 38.101-3.

Table 6. x.5-1: 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\_5A-7A\_n7A | 5 | 834 | 5 | 25 | 879 | 12 | IMD34 |
| 7 | 2527 | 10 | 50 | 2647 | N/A | N/A |
| n7 | 2547 | 10 | 50 | 2667 | N/A | N/A |
| NOTE 4: This band is subject to IMD5 also which MSD is not specified. | | | | | | | |

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

# 3 References