**3GPP TSG-RAN WG4 Meeting #98-e 　　　　　　　　　 R4-2100345**

**Online, 25th Jan-5th Feb, 2021**

**Source: KDDI.**

**Title: TP for TR 37.717-21-11: DC\_3-18\_n41**

**Agenda item: 9.4.2**

**Document for:** **Approval**

# Introduction

This contribution is a text proposal for TR 37.717-21-11 to include DC\_3A-18A\_n41A and according to the request in [1].

# References

[1] RP-202060, Revised WID on Rel-17 Dual Connectivity (DC) of 2 bands LTE inter-band CA (2DL/1UL) and 1 NR

band (1DL/1UL).

# Text Proposal

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## 5.x DC\_3-18\_n41

### 5.x.1 Configurations for DC

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

| DC  configuration | Uplink configuration |
| --- | --- |
| DC\_3A-18A\_n41A | DC\_3A\_n41A  DC\_18A\_n41A |

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

Co-existence studies of this 3DL/2UL DC configuration are already covered in the constituent fall-back modes. And it can be get:

- IMD2 of band 18 UL and band n41 UL falling to band 3 DL.

- IMD2 and IMD3 of band 3 UL and band n41 UL falling to band 18 DL.

### 5.x.3 ∆TIB and ∆RIB values

For DC\_3-18\_n41, the ΔTIB,c and ΔRIB,c values 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\_3-18\_n41 | 3 | 0.6 |
| 18 | 0.3 |
| n41 | 0.31 |
| 0.82 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2 Applicable for the frequency range of 2496-2515 MHz. | | |

**Table 5.X.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-18\_n41 | 3 | 0 |
| 18 | 0 |
| n41 | 01 |
| 0.52 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2 Applicable for the frequency range of 2496-2515 MHz. | | |

### 5.x.4 Reference sensitivity exceptions

Table 5.x.4-1 shows the required MSD:

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EN-DC Configuration** | **EUTRA/NR band** | **UL Fc**  **(MHz)** | **UL/DL BW**  **(MHz)** | **UL**  **LCRB** | **DL Fc (MHz)** | **DL BW**  **(MHz)** | **MSD**  **(dB)** | **IMD order** |
| DC\_3-18\_n41 | 18 | 820 | 5 | 25 | 865 | 5 | N/A | N/A |
| 3 | 1720 | 5 | 25 | 1815 | 5 | N/A | N/A |
| n41 | 2540 | 10 | 50 | 2540 | 10 | 29.4 | IMD2 |
| 18 | 820 | 5 | 25 | 865 | 5 | N/A | N/A |
| 3 | 1725 | 5 | 25 | 1820 | 5 | N/A | N/A |
| n41 | 2630 | 10 | 50 | 2630 | 10 | 16.0 | IMD3 |
| 18 | 820 | 5 | 25 | 865 | 5 | 28.9 | IMD2 |
| 3 | 1765 | 5 | 25 | 1860 | 5 | N/A | N/A |
| n41 | 2630 | 10 | 50 | 2630 | 10 | N/A | N/A |
| 18 | 820 | 5 | 25 | 865 | 5 | 19.0 | IMD3 |
| 3 | 1725 | 5 | 25 | 1820 | 5 | N/A | N/A |
| n41 | 2585 | 5 | 25 | 2585 | 5 | N/A | N/A |
| 3 | 1755 | 5 | 25 | 1850 | 5 | 28.8 | IMD2 |
| n41 | 2670 | 10 | 50 | 2670 | 10 | N/A | N/A |
| 18 | 820 | 5 | 25 | 865 | 5 | MSD | N/A |

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