**3GPP TSG-RAN WG4 Meeting #97-e R4-20xxxxx**

**Online, 2nd-13th Nov, 2020**

**Source:** Samsung, KDDI

**Title:** TP for TR 37.717-11-21: DC\_1-3-41\_n3-n41

**Agenda item:** 10.7.2

**Document for:** Approval

1. Introduction

This contribution is a text proposal for TR 37.717-11-21 to include DC\_1-3-41\_n3-n41 according to the request in [1].

2. Reference

1. RP-201477, Revised WID on Dual Connectivity (DC) of x bands (x=1,2,3,4) LTE inter-band CA (xDL/1UL) and 2 bands NR inter-band CA (2DL/1UL).

3. Text Proposal

**<Start of Text Proposal>**

8.x DC\_1-3-41\_n3-n41

8.x.1 Operating bands for DC

**Table 8.x.1-1: DC band combination of LTE 3DL/1UL + NR 2DL/1UL**

|  |  |  |
| --- | --- | --- |
| DC Band | LTE Band  (Table 5.5-1 in TS36.101[4]) | NR Band  (Table 5.2-1 in TS38.101-1[2] and TS38.101-2[3]) |
| DC\_1-3-41\_n3-n41 | 1, 3, 41 | n3, n41 |

8.x.2 Channel bandwidths per operating band for DC

**Table 8.x.2-1: Supported bandwidths per DC band combination of LTE 3DL/1UL + NR 2DL/1UL**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DC operating / channel bandwidth [MHz]** | | | | | | | | | | | | | | | | |
| **E-UTRA and NR DC Configuration** | **UL Configuration** | **E-UTRA and NR Band** | **SCS (kHz)** | **5** | **10** | **15** | **20** | **25** | **30** | **40** | **50** | **60** | **70** | **80** | **90** | **100** |
| DC\_1A-3A-41A\_n3A-n41A | DC\_1A\_n3A  DC\_1A\_n41A  DC\_3A\_n3A1  DC\_3A\_n41A  DC\_41A\_n3A | 1 | See CA\_1A-3A-41A BCS0 in Table 5.6A.1-2a of TS 36.101 | | | | | | | | | | | | | |
| 3 |
| 41 |
| n3 | See CA\_n3A-n41A BCS0 in Table 5.5A.3.1-1 of TS 38.101-1 | | | | | | | | | | | | | |
| n41 |
| n41 |
| NOTE1: Only single switched UL is supported. | | | | | | | | | | | | | | | | |

8.x.3 Co-existence studies

Co-existence studies of this 5DL/2UL DC configuration are already covered in the constituent fall-back mode.

8.x.4 ∆TIB and ∆RIB values

For DC\_1-3-41\_n3-n41, the ΔTIB,c and ΔRIB,c values are given in the tables below.

**Table 8.x.4-1: ΔTIB,c**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔTIB,c [dB]** |
| --- | --- | --- |
| DC\_1-3-41\_n3-n41 | 1 | 0.5 |
| 3 | 0.5 |
| 41 | 0.31/0.82 |
| n3 | 0.5 |
| 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 8.x.4-2:** **ΔRIB,c**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔRIB,c [dB]** |
| --- | --- | --- |
| DC\_1-3-41\_n3-n41 | 1 | 0 |
| 3 | 0 |
| 41 | 01/0.52 |
| n3 | 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. | | |

8.x.5 MSD

There are no additional MSD requirements for this band combination.

**<End of Text Proposal>**