**3GPP TSG-RAN WG4 Meeting #97-e R4-2014878**

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

**Source:** KDDI

**Title:** TP for TR 37.717-11-21: DC\_3A-18A\_n3A-n41A

**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\_3A-18A\_n3A-n41A and according to the request in [1].

2. Reference

1. RP-201477, New 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>**

7.x DC\_3-18\_n3-n41

7.x.1 Operating bands for DC

**Table 7.x.1-1: DC band combination of LTE 2DL/1UL + NR 2DL/1UL**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **E-UTRA and NR DC Band** | **E-UTRA and NR Band** | **Uplink (UL) band** | | | **Downlink (DL) band** | | | **Duplex**  **mode** |
| **BS receive / UE transmit** | | | **BS transmit / UE receive** | | |
| **FUL\_low – FUL\_high** | | | **FDL\_low – FDL\_high** | | |
| DC\_3A-18A\_n3A-n41A | 3 | 1710 MHz | – | 1785 MHz | 1805 MHz | – | 1880 MHz | FDD |
| 18 | 815 MHz | – | 830 MHz | 860 MHz | – | 875 MHz | FDD |
| n3 | 1710 MHz | – | 1785 MHz | 1805 MHz | – | 1880 MHz | FDD |
| n41 | 2496MHz | – | 2690 MHz | 2496 MHz | – | 2690 MHz | TDD |

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

**Table 7.x.2-1: Supported bandwidths per DC band combination of LTE 2DL/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** | **Maximum aggregated bandwidth**  **[MHz]** |
| DC\_3A-18A\_n3A-n41A | DC\_3A\_n3A1  DC\_3A\_n41A  DC\_18A\_n3A  DC\_18A\_n41A | | 3 | 15 | Yes | Yes | Yes | Yes |  |  |  |  |  |  |  |  |  | 175 |
| 18 | 15 | Yes | Yes | Yes |  |  |  |  |  |  |  |  |  |  |
| n3 | 15 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |  |
| n41 | 15 |  | Yes | Yes | Yes |  | Yes | Yes | Yes |  |  |  |  |  |
| 30 |  | Yes | Yes | Yes |  | Yes | Yes | Yes | Yes |  | Yes | Yes | Yes |
| 60 |  | Yes | Yes | Yes |  | Yes | Yes | Yes | Yes |  | Yes | Yes | Yes |
| NOTE1: Only single switched UL is supported. | | | | | | | | | | | | | | | | | | |

7.x.3 Co-existence studies

Co-existence studies of DC\_3A-18A\_n3A-n41A and protected bands are already covered in the constituent fall-back modes.

7.x.4 ∆TIB and ∆RIB values

For DC\_3-18\_n3-n41, the ΔTIB,c and ΔRIB,c values are given in the tables below.

**Table 7.x.4-1: ΔTIB,c**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔTIB,c [dB]** |
| --- | --- | --- |
| DC\_3-18\_n3-n41 | 3 | 0.6 |
| 18 | 0.3 |
| n3 | 0.6 |
| n41 | 0.31 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz. | | |

**Table 7.x.4-2: ΔRIB,c**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔRIB,c [dB]** |
| --- | --- | --- |
| DC\_3-18\_n3-n41 | 3 | 0.2 |
| 18 | 0 |
| n3 | 0.2 |
| n41 | 01 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz. | | |

7.x.5 MSD

All MSD requirements forDC\_3-18\_n3-n41 are already covered by constituent fallback modes. No additional MSD requirement is needed.

**<End of Text Proposal>**