**3GPP TSG-RAN WG4 Meeting #** **102-e R4-2204751 R4-22xxxxx**

**Electronic Meeting, February 21 – March 3, 2022**

Source: ZTE Corporation

Title: TP for 37.717-11-21: DC\_3\_n41-n258

Agenda Item: 6.19.2

Document for: Approval

# **Introduction**

This contribution provides a text proposal on DC band combination of DC\_3\_n41-n258 for TR37.717-11-21[1].

# **Reference**

1. TR37.717-11-21, Dual Connectivity (EN-DC) of x bands (x=1, 2, 3, 4) LTE inter-band CA (x DL/1 UL) and 2 bands NR Inter-band CA (2 DL/1 UL) band combinations, v0.6.0

# Text Proposal

**----- Start of TP -----**

## 6.x DC\_3\_n41-n258

### 6.x.1 Operating bands for DC

Table 6.x.1-1: **DC band combination of one LTE band + inter-band NR 2DL/1UL**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E-UTRA and NR DC Band combination | E-UTRA and NR DC 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\_3\_n41-n258 | 3 | 1920 MHz | – | 1980 MHz | 2110 MHz | – | 2170 MHz | FDD |
| n41 | 2496 MHz | – | 2690 MHz | 2496 MHz | – | 2690 MHz | TDD |
| n258 | 24250 MHz | – | 27500 MHz | 24250 MHz | – | 27500 MHz | TDD |

### 6.x.2 Configuration for DC

Table 6.x.2-1: Inter-band EN-DC configurations (three bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) |
| --- | --- |
| DC\_3A\_n41A-n258A | DC\_3A\_n41A  DC\_3A\_n258A |

### 6.x.3 Co-existence studies

- For combination of DC\_3\_n41, the co-existence studies have been covered in TR37.716-11-11, where no impact on band n258.

- For combination of DC\_3\_n258, it is no need to consider the harmonic and intermodulation co-existence studies due to the large frequency seperation.

### 6.x.4 ∆TIB and ∆RIB values

For the DC conbination of DC\_3\_n41-n258, the ΔTIB,c and ΔRIB,c for band n258 equals to 0, and the ΔTIB,c and ΔRIB,c for band 3 and n41 are the same with the values of the constiture DC\_3\_n41 defined in TS38.101-3.

### 6.x.5 MSD

No additional MSD requirement is needed.

**----- End of TP -----**