**3GPP TSG-RAN WG4 Meeting #** **99-e R4-2110459**

**Electronic Meeting, May. 19-27, 2021**

Source: ZTE Corporation

Title: TP for TR38.717-03-02\_CA\_n41A-n79A-n258A

Agenda Item: 8.13.2

Document for: Approval

# **Introduction**

This contribution provides a text proposal to introduce 3DL/1UL CA\_n41A-n79A-n258A in TR38.717-03-02.

# **Reference**

1. TR38.717-03-02,Rel-17 NR inter-band Carrier Aggregation for 3 bands DL with 2 band UL,v0.4.0

# Text Proposal

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

5.3.x CA\_n41-n79-n258

5.3.x.1 Operating bands for CA

**Table 5.3.x.1-1: 3DL Inter-band CA operating bands**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **NR Band** |  **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** |
| CA\_n41A-n79A-n258A | n41 | 2496 MHz | – | 2690 MHz | 2496 MHz | – | 2690 MHz | TDD |
| n79 | 4400 MHz | – | 5000 MHz | 4400 MHz | – | 5000 MHz | TDD |
| n258 | 24250 MHz | – | 27500 MHz | 24250 MHz | – | 27500 MHz | TDD |

5.3.x.2 Channel bandwidths per operating band for CA

**Table 5.3.x.2-1:** Supported channel bandwidths per CA configuration for 3DL inter-band CA

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NR CA configuration | Uplink CA configuration | NR Band | Channel bandwidth (MHz)  | Bandwidth combination set |
|  |  |  | 5 | 10 | 15 | 20 | 25 | 30  | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 200 | 400 |  |
| CA\_n41A-n79A-n258A | CA\_n41A-n79ACA\_n41A-n258ACA\_n79A-n258A | n41 |  | 10 | 15 | 20 |  |  | 40 | 50 | 60 |  | 80 | 90 | 100 |  |  | 0 |
|  |  | n79 |  |  |  |  |  |  | 40 | 50 | 60 |  | 80 |  | 100 |  |  |  |
|  |  | n258 |  |  |  |  |  |  |  | 50 |  |  |  |  | 100 | 200 | 400 |  |

5.3.x.3 Co-existence studies

Co-existence studies can be omitted because harmonic and intermodulation impact between FR1 bands have been already studied for CA\_n41-n79 in TR 38.716-02-00, and harmonic and intermodulation impact between FR1 bands and FR2 band are negligible.

5.3.x.4 MSD

As mentioned in 5.3.x.3, MSD analysis can be omitted and there is no need to specify additional MSD requirement for the CA combination.

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