**3GPP TSG-RAN WG4 Meeting #95-e R4-2006607**

**Online, 25 May – 5 June, 2020**

**Source:** Huawei, HiSilicon, Bell Mobility, Telus

**Title:** TP to TR 38.716-03-02 for CA\_n7-n25-n66

**Agenda item:** 8.11.2

**Document for:** Approval

# Background

This contribution provides text proposal on the NR CA band combination CA\_n7-n25-n66 as defined in Revised WID on NR inter-band Carrier Aggregation/Dual connectivity for 3 bands DL with 2 bands UL [1].

# Text Proposal

##### ---Start of changes---

### 5.1.x CA\_n7-n25-n66

#### 5.1.x.1 Operating bands for CA

Table 5.1.x.1-1: CA band combination of band n7+n25+n66

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | | |
| n7 | 2500 MHz | – | 2570 MHz | 2620 MHz | – | 2690 MHz | FDD |
| n25 | 1850 MHz | – | 1915 MHz | 1930 MHz | – | 1995 MHz | FDD |
| n66 | 1710 MHz | – | 1780 MHz | 2110 MHz | – | 2200 MHz | FDD |

#### 5.1.x.2 Channel bandwidths per operating band for CA

Table 5.1.x.2-1: Supported bandwidths per CA band combination of band n7+n25+n66

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CA operating / channel bandwidth [MHz]** | | | | | | | | | | | | | | | | |
| **NR CA Configuration** | **UL Configuration** | **NR Band** | **SCS [kHz]** | **5** | **10** | **15** | **20** | **25** | **30** | **40** | **50** | **60** | **80** | **90** | **100** | **Bandwidth combination set** |
| CA\_n7A-n25A-n66A | CA\_n7A-n25A, CA\_n7A-n66A, CA\_n25A-n66A | n7 | 15 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  | 0 |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |
| n25 | 15 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |
| n66 | 15 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |
| 30 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |
| 60 |  | Yes | Yes | Yes | Yes | Yes | Yes |  |  |  |  |  |

#### 5.1.x.3 UE co-existence studies

Based on co-existence studies of Band n7 + Band n25, Band n7 + Band n66 and Band n25 + Band n66 captured in TR 38.716-02-00, there is no own Rx impact on the 3rd band.

#### 5.1.x.4 ∆TIB and ∆RIB values

For CA\_n7-n25-n66, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 5.1.x.4-1: ΔTIB,c

| Inter-band CA Configuration | NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| CA\_n7-n25-n66 | n7 | 0.5 |
| n25 | 0.5 |
| n66 | 0.5 |

Table 5.1.x.4-2: ΔRIB,c

| Inter-band CA Configuration | NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| CA\_n7-n25-n66 | n7 | 0.5 |
| n25 | 0.3 |
| n66 | 0.5 |

#### 5.1.x.5 REFSENS requirements

There is no additional requirement for this band combination.

##### ---End of changes---

# Reference

[1] R4-2004181, “Revised WID on Rel-16 NR Inter-band Carrier Aggregation/Dual Connectivity for 3 bands DL with 2 bands UL”, ZTE Corporation