3GPP TSG-RAN WG4 Meeting # 99-e Rev. 1 of R4-2110698

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

**Title: TP to TR 38.717-04-02: Addition of CA\_n25-n66-n71-n77**

**Source: Nokia, T-Mobile USA**

**Agenda item: 8.14.2**

**Document for: Approval**

# 1 Introduction

This is a TP to TR 38.717-04-01 to add CA\_n25A-n66A-n71A-n77A with 2UL

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## 5.2.x CA\_n25-n41-n71-n77

5.2. x.1 Operating bands for CA

Table 5.2.x.1-1: Inter-band CA operating bands of CA\_n25-n41-n71-n77

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NR CA Band** | **NR Band** | **Uplink (UL) operating band** | | | **Downlink (DL) operating band** | | | **Duplex Mode** |
| **BS receive / UE transmit** | | | **BS transmit / UE receive** | | |
| **FUL\_low – FUL\_high** | | | **FDL\_low – FDL\_high** | | |
| CA\_n25A-n66A-n71A-n77A | n25 | 1850 MHz | – | 1915 MHz | 1930 MHz | – | 1995 MHz | FDD |
| n66 | 1710 MHz | – | 1780 MHz | 2110 MHz | – | 2200 MHz | FDD |
| n71 | 663 MHz | – | 698 MHz | 617 MHz | – | 652 MHz | FDD |
| n77 | 3300MHz | – | 4200 MHz | 3300 MHz | – | 4200 MHz | TDD |

CA\_n25A-n66A 2UL defined in 38.101-1 Table 5.5A.3.1-1

CA\_n25A-n71A 2UL defined in 38.101-1 Table 5.5A.3.1-1

CA\_n25A-n77A 2UL defined in 38.101-1 Table 5.5A.3.1-1

CA\_n66A-n71A 2UL defined in 38.101-1 Table 5.5A.3.1-1

CA\_n66A-n77A 2UL defined in 38.101-1 Table 5.5A.3.1-1

CA\_n71A-n77A 2UL defined in 38.101-1 Table 5.5A.3.1-1

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

Table 5.2.x.2-1: Supported bandwidths per CA\_n25-n41-n71-n77

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NR CA Configuration** | **UL Config** | **NR Band** | **5** | **10** | **15** | **20** | **25** | **30** | **40** | **50** | **60** | **70** | **80** | **90** | **100** | **Bandwidth combination set** |
| CA\_n25A-n66A-n71A-n77A | CA\_n25A-n66A  CA\_n25A-n71A  CA\_n25A-n77A  CA\_n66A-n71A  CA\_n66A-n77A  CA\_n71A-n77A | n25 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  | 0 |
| n66 | 5 | 10 | 15 | 20 | 25 | 30 | 40 |  |  |  |  |  |  |
| n71 | 5 | 10 | 15 | 20 |  |  |  |  |  |  |  |  |  |
| n77 |  | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

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#### 5.2.x.3 UE Co-existence study

The coexistence studies have been captured into the constituent fallback modes in TR 38.717-03-02 and in TS 38.101-1, there is no additional harmonic and intermodulation impact for the additional band receiver.

#### 5.2.x.5 REFSENS requirements

There are no additional MSD requirements for this band combination.

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