**3GPP TSG-RAN4#94-e R4-2000537**

**24th – 06th Mar 2020**

Source: Nokia, US Cellular

Title: TP for TR 37.716-21-21: DC\_66A\_n12A-n258A

Agenda item: 9.7.3

Document for: Approval

# 1 Introduction

This is a TP into TR 37.716-21-21 to add DC\_66A\_n12A-n258A

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## 6.x DC\_66\_n12-n258

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

**Table 6.x.1-1: DC band combination of LTE 1DL/1UL + 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\_66\_n12-n258 | 66 | 1710 MHz | – | 1780 MHz | 2110 MHz | – | 2200 MHz | FDD |
| n12 | 699 MHz | – | 716 MHz | 729 MHz | – | 746 MHz | FDD |
| n258 | 24250 MHz | – | 27500 MHz | 24250 MHz | – | 27500 MHz | TDD |

### 6.x.2 Channel bandwidths per operating band for DC

**Table 6.x.2-1: Supported bandwidths per DC LTE 1DL/1UL + inter-band NR 2DL/1UL**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **E-UTRA and NR DC Configuration** | **UL Configuration** | **NR Band** | **SCS [kHz]** | **5** | **10** | **15** | **20** | **30** | **40** | **50** | **100** | **200** | **400** | **Max**  **BW**  **[MHz]** |
| DC\_66A\_n12A-n258A | DC\_66A\_n258A  DC\_66A\_n12A | 66 | 15 | Yes | Yes | Yes | Yes |  |  |  |  |  |  | 435 |
| 30 |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |
| n12 | 15 | Yes | Yes | Yes |  |  |  |  |  |  |  |
| 30 |  | Yes | Yes |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |
| n258 | 60 |  |  |  |  |  |  | Yes | Yes | Yes |  |
| 120 |  |  |  |  |  |  | Yes | Yes | Yes | Yes |

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

Co-existence analysis is summarized in Table 5.3-1.

### 6.x.4 ∆TIB and ∆RIB values

For DC\_66\_n12-n258 the ΔTIB,c and ΔRIB,c values are derived from DC\_12\_n66 combination.

**Table 6.x.4-1: ΔTIB,c**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔTIB,c [dB]** |
| --- | --- | --- |
| DC\_66\_n12-n258 | 66 | 0.5 |
| n12 | 0.8 |
| n258 | 0 |

**Table 6.x.4-2: ΔRIB**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔRIB [dB]** |
| --- | --- | --- |
| DC\_66\_n12-n258 | 66 | 0 |
| n12 | 0 |
| n258 | 0 |

### 6.x.5 MSD

There is no need to define MSD.

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