**3GPP TSG RAN WG4 Meeting #97-e R4-2014706**

**Electronic Meeting, 2-13 Nov., 2020**

**Agenda item: 10.13.2**

**Source: SoftBank Corp.**

**Title: TP for TR 37.717-11-31: EN-DC\_1\_n3-n28-n77**

**Document for: Approval**

# 1 Introduction

EN-DC of 1B LTE and 3B NR of DC\_1\_n3-n28-n77 was approved in RAN#89 [1]. This TP is to capture the basic aspects for the EN-DC.

# 2 Text Proposal

**[Unchanged Parts Skipped]**

## 6.X DC\_1\_n3-n28-n77

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

Table 6.X.1-1: EN-DC band combination (four bands)

| EN-DC Band | E-UTRA Band | NR CA Band |
| --- | --- | --- |
| DC\_1\_n3-n28-n77 | 1 | CA\_n3-n28-n77 |

### 6.X.2 Inter-band DC Configurations

Table 6.X.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_1A\_n3A-n28A-n77A | DC\_1A\_n3A  DC\_1A\_n28A  DC\_1A\_n77A |
| DC\_1A\_n3A-n28A-n77(2A) | DC\_1A\_n3A  DC\_1A\_n28A  DC\_1A\_n77A |

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

Co-existence study for DC\_1\_n3-n28-n77 was covered by the studies for the fallback modes of DC\_1\_n3-n28, DC\_1\_n3-n77 and DC\_1\_n28-n77.

No additional MSD requirement needs to be defined for this dual connectivity configuration.

### 6.X.4 ∆TIB and ∆RIB values

For DC\_1\_n3-n28-n77, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.X.4-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1\_n3-n28-n77 | 1 | 0.6 |
| n3 | 0.8 |
| n28 | 0.6 |
| n77 | 0.8 |

Table 6.X.4-2: ΔRIB

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1\_n3-n28-n77 | 1 | 0.2 |
| n3 | 0.2 |
| n28 | 0.2 |
| n77 | 0.5 |

### 6.X.5 MSD

As mentioned in 6.X.3, there is no need to specify additional MSD requirement for this UL DC configuration..

**[Unchanged Parts Skipped]**

# 7. Reference

[1] RP-201712 Revised WID on Rel-17 Dual Connectivity (DC) of x bands (x=1,2,3) LTE inter-band CA (xDL/1UL) and 3 bands NR inter-band CA (3DL/1UL), ZTE Corporation