**3GPP TSG-RAN4 Meeting #113 *R4-2420348***

**Orlando, USA, 18th Nov 2024 – 22th Nov2024**

**Source:** Samsung, Boost Mobile Network, Qualcomm, Skyworks

**Title:** TP for TR 38.750 CA\_n66-n70 with PC2 FDD single UL

**Agenda item:** 6.8.4

**Document for:** Approval

1. Introduction

This contribution is a text proposal for TR 38.750 to include CA\_n66-n70 according to the request in [1].

PC3 is already in spec.

# 2. Reference

[1] RP-2412266 Revised WID: Rel-19 High power UE (power class 1.5 or 2) for NR intra-band Carrier Aggregation (CA) or NR inter-band CA/Dual connectivity (DC) band combinations with/without NR Supplementary uplink (SUL)

3. Text Proposal

**<Start of Text Proposal>**

5.x CA\_n66-n70

5.x.1 UE maximum output power

**Table 5.x.1-1: NR CA configurations and bandwidth combinations sets defined for inter-band CA (two bands)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NR CA configuration** | **Uplink CA configuration or single uplink carrier10** | **NR Band** | **Channel bandwidth (MHz)(NOTE 3)** | **Bandwidth combination set** |
| CA\_n66A-n70A | n668  n708 | n66 | 5, 10, 15, 20, 40 | 0 |
|  |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n66B-n70A | n668  n708 | n66 | CA\_n66B\_BCS0 | 0 |
|  |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n66(2A)-n70A | n668  n708 | n66 | CA\_n66(2A)\_BCS0 | 0 |
|  |  | n70 | 5, 10, 15, 201, 251 |  |
| CA\_n66(3A)-n70A | n668  n708 | n66 | CA\_n66(3A)\_BCS0 | 0 |
|  |  | n70 | 5, 10, 15, 201, 251 |  |

NOTE 8:   Minimum requirements for Power Class 2 are applicable for this uplink combination with 1Tx antenna connector in each band or single uplink carrier with up to 2Tx antenna connectors in this downlink/uplink combination

5.x.2 Reference sensitivity requirements

5.x.2.0 General

There is cross band isolation issue due to the proximity of two bands.

5.x.2.1 Reference sensitivity requirements with PC2 on n66/n70

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **UL band** | **DL band** | **UL Fc** | **UL BW** | **SCS of UL band** | **UL RB Allocation** | **DL Fc** | **DL BW** | **MSD** | **Cross-band**  **Interference**  **source** |
| **(MHz)** | **(MHz)** | **(kHz)** | **LCRB** | **(MHz)** | **(MHz)** | **(dB)** |
| n70 | n66 | 1702.5 | 15 | 15 | 75 (RBstart=4) | 2112.5 | 5 | 0.46  0.57 | >ACLR2 |
| n66 | n70 | 1760 | 40 | 15 | 216 (RBstart=0) | 1997.5 | 5 | 1.96  3.37 | >ACLR2 |
| NOTE 6: Applicable to UE’s supporting PC2 with single Tx  NOTE 7: Applicable to UE’s supporting PC2 with 2 Tx | | | | | | | | | |

5.x.3 ∆TIB and ∆RIB values (Void)

**<End of Text Proposal>**