3GPP TSG-RAN WG4 Meeting # 97-e R4-201xxxx

Electronic Meeting, 2nd – 13th November, 2020

**Source:** Huawei, HiSilicon

**Title:** TP for TR 36.717-04-01 CA\_1A-8A-20A-38A

**Agenda item:** 14.3.2

**Document for:** Approval

# Background

This contribution provides text proposal on the LTE CA configuration CA\_1A-8A-20A-38A as defined in the revised WID [1].

# Reference

[1] RP-201911, “Revised WID: LTE Advanced inter-band CA Rel-17 for x bands DL (x=4, 5) with 1 band UL”, Nokia, Nokia Shanghai Bell

# Text Proposal

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

## 5.x CA\_1-8-20-38

### 5.x.1 Channel bandwidths per operating band for CA

Table 5.x.1-1: E-UTRA CA configurations and bandwidth combination sets defined for inter-band CA

|  |
| --- |
| E-UTRA CA configuration / Bandwidth combination set |
| E-UTRA CA Configuration | Uplink CA configurations  | E-UTRA Bands | 1.4MHz | 3MHz | 5MHz | 10MHz | 15MHz | 20MHz | Maximum aggregated bandwidth[MHz] | Bandwidth combination set |
| CA\_1A-8A-20A-38A | - | 1 |  |  | Yes | Yes | Yes | Yes | 70 | 0 |
| 8 |  |  | Yes | Yes |  |  |
| 20 |  |  | Yes | Yes | Yes | Yes |
| 38 |  |  | Yes | Yes | Yes | Yes |

### 5.x.2 ∆TIB and ∆RIB values

Table 5.x.2-1: IB,c

|  |  |  |
| --- | --- | --- |
| CA\_1-8-20-38 | 1 | 0.5 |
| 8 | 0.6 |
| 20 | 0.5 |
| 38 | 0.5 |

Table 5.x.2-2: R IB,c

|  |  |  |
| --- | --- | --- |
| CA\_1-8-20-38 | 1 | 0 |
| 8 | 0 |
| 20 | 0 |
| 38 | 0 |

### 5.x.3 REFSENS requirements

MSD due to harmonic interference between band 20 and 38 can is similar to CA\_20A-38A.

Table 5.x.3-1: Reference sensitivity for carrier aggregation QPSK PREFSENS, CA (exceptions due to harmonic issues in the combinations of intra-band and inter-band CA)

|  |
| --- |
| Channel bandwidth |
| EUTRA CA Configuration | EUTRA band | 1.4 MHz(dBm) | 3 MHz(dBm) | 5 MHz(dBm) | 10 MHz(dBm) | 15 MHz(dBm) | 20 MHz(dBm) | Duplex mode |
| CA\_1A-8A-20A-38A8 | 38 |  |  | N/A | N/A | N/A | N/A | TDD |
| NOTE 4: No requirements apply when there is at least one individual RE within the uplink transmission bandwidth of the low band for which the 2nd transmitter harmonic is within the downlink transmission bandwidth of the high band. The reference sensitivity for all active downlink component carriers is only verified when this is not the case (the requirements specified in clause 7.3.1 apply unless otherwise specified).NOTE 8: No requirements apply when there is at least one individual RE within the uplink transmission bandwidth of the low band for which the 3rd transmitter harmonic is within the downlink transmission bandwidth of the high band. The reference sensitivity is only verified when this is not the case (the requirements specified in clause 7.3.1 apply). |

Table 5.x.3-2: Uplink configuration for the low band (exceptions due to harmonic issues in the combinations of intra-band and inter-band CA)

|  |
| --- |
| E-UTRA Band / Channel bandwidth of the high band / NRB / Duplex mode |
| EUTRA CA Configuration | UL band | 1.4 MHz | 3 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz | Duplex mode |
| CA\_1A-8A-20A-38A | 20 |  |  | 8 | 16 | 25 | 25 | FDD |

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