**3GPP TSG RAN WG1 #117 R1-240xxxx**

**Fukuoka city, Fukuoka, May 20th – 24th, 2024**

Title: [draft] Reply LS on parameters used for CG RACH-less Handover from LTM perspective

Response to: R1-2403829/R2-2403996

Release: Rel-18

Work Item: NR\_mob\_enh2-Core

Source: Fujitsu (to be RAN1)

To: RAN2

Cc:

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

Attachments: None

**1. Overall Description:**

RAN1 has noticed that the RAN2 question described in “LS on parameters used for CG RACH-less Handover“ (R1-2403829/R2-2403996) is also related to NR\_mob\_enh2-Core work item.

 RAN1 discussed the necessity of the power control parameters used for CG-PUSCH transmission for LTM, which has been defined in TS38.331 v18.1.0. The consensus is that the following underlined parameters highlighted below, i.e. rrc-P0-PUSCH-r18 and rrc-Alpha-r18, are not applicable for LTM from RAN1 perspective.

CG-RRC-Configuration-r18 ::=　 SEQUENCE {
　　cg-RRC-RetransmissionTimer-r18 INTEGER (1..64)　　　　　　　　 OPTIONAL,　 -- Need R
　　cg-RRC-RSRP-ThresholdSSB-r18　 RSRP-Range　　　　　　　 OPTIONAL,　 -- Need R
　　rrc-SSB-Subset-r18　 CHOICE {
　　　　shortBitmap-r18　　 BIT STRING (SIZE (4)),
　　　　mediumBitmap-r18　 BIT STRING (SIZE (8)),
　　　　longBitmap-r18　　 BIT STRING (SIZE (64))
　　} OPTIONAL,　 -- Need S
　　rrc-SSB-PerCG-PUSCH-r18 ENUMERATED {oneEighth, oneFourth, half, one, two, four, eight, sixteen}　OPTIONAL,　 -- Need M
　　rrc-P0-PUSCH-r18  INTEGER (-16..15)　　　　　　　　　　　　　 OPTIONAL,　 -- Need M
　　rrc-Alpha-r18 ENUMERATED {alpha0, alpha04, alpha05, alpha06, alpha07, alpha08, alpha09, alpha1} OPTIONAL, -- Need M
　　rrc-DMRS-Ports-r18　　　　　　 CHOICE {
　　　　dmrsType1-r18　　　　　　　　　BIT STRING (SIZE (8)),
　　　　dmrsType2-r18　　　　　　　　　BIT STRING (SIZE (12))
　　}　　　　　　　　　　　　　　　　　　　　　　　　　　　　　 OPTIONAL,　-- Need M
　　rrc-NrofDMRS-Sequences-r18　INTEGER (1..2)　　　　　　　　　 OPTIONAL,　-- Need M
　　...
}

**2. Actions:**

**To RAN2 group.**

**ACTION:** RAN1 respectfully asks RAN2 to update the ASN.1, if necessary.

**3. Date of Next TSG RAN WG1 Meetings:**

TSG RAN WG1 Meeting #118 19th– 23rd August 2024 Maastricht, NE

TSG RAN WG1 Meeting #118-bis 14th– 18th October 2024 TBC, CN