**3GPP TSG RAN WG1 #112bis-e R1-230xxxx**

**e-Meeting, April 17th –26th, 2023**

**Title:** [Draft] LS on PRACH coverage enhancement

**Response to:**

**Release:** Rel-18

**Work Item:** NR\_cov\_enh2

**Source:** China Telecom [RAN1]

**To:** RAN2

**Cc:**

**Contact person:** Nanxi Li, linanxi@chinatelecom.cn

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

**Attachments:**

**1. Overall Description:**

RAN1 has achieved the following agreements for PRACH coverage enhancement and details on how to realize PRACH resource partitioning is up to RAN2.

Agreement

Confirm the following working assumptions.

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| Working AssumptionFor multiple PRACH transmissions with same Tx beam, to differentiate the multiple PRACH transmissions with single PRACH transmission, at least support that multiple PRACH are transmitted on separate ROs.* Note: Separate RO means that the RO is separated with single PRACH transmission.
* FFS: whether Rel-17 framework of feature combination (*FeatureCombination-r17*) and additional RACH configuration (*AdditionalRACH-Config-r17*) can be reused for Rel-18 multiple PRACH transmissions to realize the corresponding PRACH resource partitioning.

Working AssumptionFor multiple PRACH transmissions with same Tx beam, to differentiate the multiple PRACH transmissions with single PRACH transmission, support that multiple PRACH are transmitted with separate preamble on shared ROs.* Note: Shared or separate RO/preamble means that the RO/preamble is shared or separated with single PRACH transmission.
* FFS: whether Rel-17 framework of feature combination (*FeatureCombination-r17*) and additional RACH configuration (*AdditionalRACH-Config-r17*) can be reused for Rel-18 multiple PRACH transmissions to realize the corresponding PRACH resource partitioning.
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**2. Actions:** RAN1 kindly requests RAN2 to take the above information into consideration for their future work.

**3. Dates of Next RAN WG1 Meetings:**

TSG RAN WG1 Meeting #113 May 22 – May 26 2023 Incheon, South Korea

TSG RAN WG1 Meeting #114 August 21 – August 25 2023 Toulouse, France