3GPP TSG RAN WG2 Meeting #127bis R2-2409377

Hefei, China, 14th - 18th October, 2024

**Title:** **LS on the fast RRC processing for LTM**

**Response to:**

**Release: Rel-18**

**Work Item: NR\_Mob\_enh2-Core**

**Source: RAN2**

**To: RAN4**

**Cc:**

**Contact person: Xiaonan Zhang**

 **xiaonan.zhang@mediatek.com**

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

# 1 Overall description

According to the RAN4 feature list, two components are included in the LTM fast RRC processing capability ltm-FastProcessingConfig-r18:

* *maxNumberStoredConfigCells*, indicates the maximum number of serving cell(s) and candidate cell(s), including serving SpCell(s), serving SCell(s) in MCG and SCG, SpCell in LTM candidate configurations and Scell(s) in LTM candidate configurations for MCG and SCG, that UE can store the configurations.
* *maxNumberConfigs-r18*, represents the maximum number of LTM candidate configuration for which the UE can perform early ASN.1 decoding and validity check, as described in TS 38.133.

Currently, only the number of LTM candidate configurations is visible in *LTM-config*, while the number of SpCell/SCell(s) in LTM candidate configurations is not visible until the UE decodes LTM candidate configurations.

Question 1: RAN2 would like to know if the number of LTM candidate configurations and the number of serving cell(s) + SpCell/SCell(s) in LTM candidate configurations may exceed the UE capability.

Question 2: If the answer to question 1 is “Yes” (may exceed), RAN2 would like to know if there is any issue if the UE is not explicitly given the number of SpCell/SCell(s) in LTM candidate configurations for fast RRC processing. (For example, can the UE perform fast RRC processing to ASN.1 decode LTM candidate configurations only based on their number? If the UE finds that the number of serving cell(s) + SpCell/SCell(s) in LTM candidate configurations exceeds its capability, it is up to the UE implementation to drop the ASN.1 decoded LTM candidate configurations)

# 2 Actions

**To RAN4**

**ACTION:** RAN2 kindly asks RAN4 to discuss the above question and provide the answer.

# 3 Dates of next TSG RAN WG 2 meetings

TSG RAN WG2 Meeting #128 18 – 22 November 2024 Orlando, USA

TSG RAN WG2 Meeting #129 17 – 21 February 2025 Athens, Greece