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:**

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# 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.

RAN2 would like to know the answers for the following three questions:

1. As far as the network configures a number of total serving cell(s) + SpCell/SCell(s) in LTM candidate configurations which is up to *maxNumberStoredConfigCells* and where up to *maxNumberConfigs* LTM candidate configurations are included within the configured total cells, is it the correct understanding that UE will be capable of performing early ASN.1 decoding on all the configured LTM candidate configurations?
2. Does the UE need to know the number of SpCells and SCells within the configured LTM candidate configurations before doing the early ASN.1 decoding of an LTM candidate configuration?
3. Is it possible that the number of serving cell(s) + SpCell/SCell(s) in LTM candidate configurations exceeds the UE reported *maxNumberStoredConfigCells*?

# 2 Actions

**To RAN4**

**ACTION:** RAN2 kindly asks RAN4 to discuss the above questions 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