3GPP TSG RAN WG4 Meeting #111 R4-241xxxx

Fukuoka, Japan, 20 May 2024 – 24 May 2024

**Title: Reply LS on LTM L1 intra and inter-frequency measurements**

**Response to: R2-2404014**

**Release: Rel-18**

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

**Source: RAN4**

**To:** **RAN2**

**Cc: RAN1**

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

**Attachments:** NA

# 1 Overall description

RAN4 would like to thank RAN2 for the LS.

RAN4 discussed whether intra-frequency and inter-frequency L1 measurement and reporting are prerequisites to support intra-frequency and inter-frequency LTM and reached the following consensus:

* In FR1, RAN4 Rel-18 related LTM requirements are applicable for the case without L1 measurement and report of LTM candidate cell, under certain conditions specified in TS 38.133.
* In FR2, RAN4 Rel-18 related LTM requirements are not applicable if L1 measurement of LTM candidate cell is not supported or configured.

RAN4 also discussed the understanding of per BC and would like to clarify that RAN4 features 39-1, 39-2, 39-3-1, 39-3-2, 39-3-3, 39-3-4, 39-3-5, 39-3-6 are reported per BC of UE’s current configured serving cells.

# 2 Actions

**To RAN1**

**ACTION:** RAN4 respectfully asks RAN2/1 to take the above into their speciation work

# 3 Dates of next TSG RAN WG 4 meetings

TSG RAN WG4 Meeting #112 19 to 23, Aug. 2024 Maastricht, Netherlands

TSG RAN WG4 Meeting #112bis 14 to 18, Oct. 2024 TBD, China