3GPP TSG RAN WG2 Meeting 125bis TDoc R2-24xxxxx

Changsha, China, 15th - 19th April 2024

**Title: [Draft] LS on LTM L1 intra and inter-frequency measurements**

**Response to:**

**Release: Rel-18**

**Work Item: Further NR mobility enhancements (NR\_Mob\_enh2-Core)**

**Source: Intel [To be RAN2]**

**To: RAN WG1, RAN WG4**

**Contact person: Sudeep Palat**

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

**Attachments:** None

# 1 Overall description

RAN2 discussed RAN1 and RAN4 feature lists associated with Rel-18 NR\_Mob\_enh2. RAN2 discussed wither the following L1 measurement and reporting features are mandatory to support LTM or whether L3 measurement could be used.

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RAN2 made the following agreement:

* RAN2 makes no further assumptions whether L3 measurements can be used or not to trigger LTM.

RAN2 would like to check the following with RAN1 and RAN4:

**Question 1 :** Are the following intra-frequency and inter-frequency L1 measurement and reporting features (45-1 and 45-1a) prerequisites to support intra-frequency and inter-frequency LTM, respectively?

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**Question 2:** The above features, 45-1 and 45-1a, from RAN1 and related 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 defined per BC for both intra-frequency and inter-frequency measurements. RAN2 would like check with RAN1/4 for which BC (e.g. BC of current serving cells, BC including current serving cells and cell to be measured or something else) these capabilities are to be considered for L1 intra-frequency and inter-frequency LTM measurements?

# 2 Actions

**To RAN1 and RAN4:**

**ACTION:** RAN2 respectfully asks RAN1 and RAN4 to provide feedback on the above Question 1 and Question 2.

# 3 Dates of next TSG RAN WG2 meetings

TSG RAN WG2 Meeting #126 20 - 24 May 2024  Fukuoka, Japan

TSG RAN WG2 Meeting #127 19 - 23 Aug 2024  Maastricht, Netherlands