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**

 **sudeep.k.palat@intel.com**

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

**Attachments:** None

# 1 Overall description

RAN2 discussed RAN1 and RAN4 feature lists associated with Rel-18 NR\_Mob\_enh2.

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?

|  |  |
| --- | --- |
| 45-1 | Intra-frequency L1 measurement and reports for L1-L2 Triggered Mobility (LTM) procedure |
| 45-1a | Inter-frequency L1 measurement and reports for L1-L2 Triggered Mobility (LTM) procedure |

**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 and inter-frequency measurements. RAN2 would like check with RAN1/4 what the BC is referring to here in the context of L1 intra 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