**3GPP TSG-RAN WG2 Meeting #131** **R2-2506217**

**Bangalore, India, Aug 25th – 29th, 2025**

Agenda Item: 8.6.2

Source: CATT

**Title:** Report of [AT131][107][MOB](CATT)

**Document for:** Discussion and Decision

# Introduction

This document is the report of the following email discussion.

* [AT131][107][MOB] (CATT)

 **Scope:** Discuss and decide the following questions.

* Difference between per UE capability and per band capability with a restriction to set same value for all bands?
* “cltm-ExecutionConditionL3-r19” and ”cltm-ExecutionConditionL1-r19” per UE capability or per band capability with the restriction?
* Do we need differentiation for intra-F C-LTM and inter-F C-LTM? Note LTM capability has different ones for intra-F and inter-F cases.

 **Intended outcome:** Discussion summary in R2-2506217.

**Deadline:** Offline meeting room will be announced by CATT. Comeback either in Wednesday session or CB session.

# Discussion

**Issue 1: What is the difference between per UE capability and per band capability(with restriction to set same value for all the bands)?**

In R17, a principle was agreed in RAN2#116bis-e as follows,

|  |
| --- |
| * From Rel-17 onwards, at least for new capabilities, if a UE capability requires at least FRx or at least xDD differentiation, it is defined with both FRx and xDD differentiation in per band signaling, i.e. no new UE capabilities will be defined in the FRX and XDD capability signaling branches.
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Rapporteur’s understanding: The needs of FRx or at least xDD differentiation mandates a per band UE capability. On the opposite, a per UE capability can be used instead if UE needs to set same value for all the bands.

**Observation 1: The needs of FRx or at least xDD differentiation mandates a per band capability, according to the agreed principle as follows,**

**“From Rel-17 onwards, at least for new capabilities, if a UE capability requires at least FRx or at least xDD differentiation, it is defined with both FRx and xDD differentiation in per band signaling, i.e. no new UE capabilities will be defined in the FRX and XDD capability signaling branches”.**

**Observation 2: per UE capability can be used if no need of FRx or xDD differentiation.**

**Issue 2: Are “cltm-ExecutionConditionL3-r19”and “cltm-ExecutionConditionL1-r19” defined as per UE capability or per band capability with the restriction?**

Rapporteur’s understanding: Support of“cltm-ExecutionConditionL3-r19”and “cltm-ExecutionConditionL1-r19” are just related to the UE procedures in higher layers. FRx or xDD differentiation should not be necessary. Thus, a per UE capability should be more suitable.

**Observation 3:** **FRx or xDD differentiation is not needed for the UE capability“cltm-ExecutionConditionL3-r19”and “cltm-ExecutionConditionL1-r19”.**

**Proposal 1: “cltm-ExecutionConditionL3-r19”and “cltm-ExecutionConditionL1-r19” are defined as per UE capabilities.**

**Issue 3: Do we need to differentiate intra-F CLTM and inter-F CLTM?Note LTM capability has different ones for intra-F and inter-F cases?**

Rapporteur’s understanding: Since CLTM is based on R18 LTM, the CLTM should by default inherit UE’s R18 LTM capabilities. That means, if UE support CLTM and R18 intra-f LTM, UE supports intra-F CLTM. If UE support CLTM and R18 inter-F LTM, UE supports inter-F CLTM. So there is no need to differentiate intra-F CLTM and inter-F CLTM.

**Proposal 2: No need to differentiate between intra-F CLTM and inter-F CLTM.**

# Conclusion