3GPP TSG-RAN WG2#131 R2-25XXXXX

Bengaluru, India, 25 Aug - 29 Aug, 2025

Agenda Item: 8.19.1

Source: Huawei, HiSilicon

Title: Report of [AT131][011][TEI19] Early CSI (Huawei)

Document for: Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

* Prepare offline a RAN2 CR (how it would like). Wait for some RAN1/RAN4 progress on LTM related issues and identify whether we can assume that those solutions can be used.
* Prepare an LS to RAN1 and cc RAN4 to indicate intention on RAN2 solution, provide the RAN2 CR (how it would look like). Provide the identified impacts to RAN1 and ask if this is ok.
* [AT131][011][TEI19] Early CSI (Huawei)

Intended outcome: LS, RAN2 CR

Deadline: Thursday

Based on the comments from received online, the description related to CSI reporting was removed from the field description in the RRC CR. We also share the progress from RAN1 and RAN4 and provide our view.

Please provide your comments by 09:00 on Thursday to allow time to update the CR and the draft LS before deadline.

# 2 RAN1’s progress

Of all the agreements made by RAN1, only the following agreement is relevant for L3 handover.

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| Agreement   * Adapt LTM-CSI-ReportConfig to include cqi-Table for CQI reporting |

We updated the RRC CR to include this for L3 handover.

# 3 RAN4’s progress

The following is the agreement from RAN4:

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| Agreement:   * No consensus on defining new RAN4 requirements for early CSI acquisition.   + Clarification on the applicability of the existing requirement is not precluded if consensus on the exact clarification can be reached. |

There was no consensus on defining new RAN4 requirements.

# 4 RAN2 CRs

In addition to capturing the latest RAN1’s agreement, we removed the description related to CSI reporting from the field description of the RRC CR as suggested by Ericsson during online.

Please don’t change the CR text or insert comments to the CR file. Please use the table below for comments and wording suggestions for clarity of the CR tdoc.

**CR to 38.331:**

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| --- | --- | --- |
| **Company** | **Section and detailed comments** | **Rapporteur’s response** |
| MediaTek | RAN1 has not yet finalized (FFS) the granularity of this feature (FG63-6) for LTM. We suggest informing RAN1 and let RAN1 to decide the granularity of this feature in L3 HO—or, at least, setting the granularity per band to align with LTM basic capability.  Moreover, LTM early CSI have separate sub-features (e.g., intra/inter-freq, the support or not for SP-CSI-RS). We should let RAN1 to also decide whether the same sub-features are introduced(copied) for L3 HO, or to reuse the LTM sub-features. |  |
| Samsung | We think this is determined by RAN1. We are not sure the per UE capability is enough for this feature. The capabilities for early CSI acquisition for LTM is not determined yet (i.e. FFS and per BC is considered now).  We think the per UE capability is not good granularity. At least per band or per BC (between source and target) should be considered. |  |

**CR to 38.306:**

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| **Company** | **Section and detailed comments** | **Rapporteur’s response** |
| MediaTek | Same comment as above. |  |
| Samsung | Same comment as above |  |

# 5 draft LS to RAN1

A draft LS is provided in the same folder. Please provide your comments.

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| --- | --- | --- |
| **Company** | **Section and detailed comments** | **Rapporteur’s response** |
| MediaTek | We believe there will be more RAN1 spec impact than those two TPs.  We should also ask RAN1 to check and review all potentially impacted specs and update them as needed.  Please see the suggested words as below: |  |
| Samsung | From RRC signaling perspective, we think there are no big issues to support it.  We think it is better to provide the differences compared with the early CSI acquisition for LTM or legacy HO.   * For L3 HO early CSI acquisition always done after RRCReconfiguration decoding (processing delay should be considered). * From the target cell perspective, target cell needs to activate these CSI resources after sending the HandoverCommand message to source cell because the target cell has no idea when HO is triggered by source cell. This is the new NW operation compared to legacy HO. |  |