**3GPP TSG-RAN WG1 Meeting #114 R1-23xxxxx**

**Toulouse, France, 21-25 August, 2023**

**Agenda Item: 9.17**

**Source: Moderator (Huawei)**

**Title: Summary of email discussion [Post114-38.212-NR\_Mob\_enh2-Core]**

**Document for: Discussion and Decision**

# Introduction

This document summarizes the discussions on the 38.212 draft CR on NR mobility, and aims to stabilize the 38.212 draft CR.

[Post114-38.212-NR\_Mob\_enh2-Core] Email discussion on Rel-18 draft CRs by September 7 – Editors

# First round discussions

This section summarize the first round email discussions on draft CR v00. Companies are encouraged to provide the first round views by 09/05 (Tuesday), 6:00am UTC, then we can update the draft CR accordingly for the next step discussions.

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| *Company* | *View* |
| Editor | The changes are marked with author “Yan Cheng\_post RAN1#114” on top of the version R1-2306317 endorsed in RAN1#113, which are to reflect the agreements from RAN1#114. |
| vivo | To avoid ambiguities, following TPs are provided for the section 7.3.1.2.1:* The field of “PRACH retransmission indicator” is reserved if the cell indicated by Cell indicator field is a serving cell but not a candidate cell. However, there is no description about how to determine the cell indicated by Cell indicator field is a serving cell but not a candidate cell in the current version. To address this issue, following contents should be introduced to the description of Cell indicator.
	+ Cell indicator – bits indicating the cell for the corresponding PRACH transmission if the UE is configured with higher layer parameter EarlyUlSyncConfig, where C is the number of candidate cells configured with higher layer parameter EarlyUlSyncConfig; If the value of this field is 0, the cell indicated by Cell indicator field is not a candidate cell but a serving cell which transmits the PDCCH order;
	+ 0 bit if the UE is not configured with higher layer parameter EarlyUlSyncConfig.
* For the part of PRACH retransmission indicator, there is ambiguity about the corresponding criteria to the “otherwise”. To solve it, some modification is provided below:
	+ PRACH retransmission indicator – 0 or 1 bit
		- if the UE is configured with higher layer parameter EarlyUlSyncConfig,
			* 1bit indicating initial transmission or retransmission of PRACH according to Table 7.3.1.2.1-3, if the cell indicated by Cell indicator field is a candidate cell; this bit is reserved if the cell indicated by Cell indicator field is a serving cell but not a candidate cell;
		- 0 bit otherwise.
* For the part of reserved bit, “bits” is missed after the “” in the third sub-bullet.
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| ZTE | **Regarding definition of M in Note of Table 6.3.1.1.2-8C, as in the yellow highlighted part below,** **Table 6.3.1.1.2-8C: Mapping order of CSI fields of one report for SSBRI/RSRP reporting for L1/L2-triggered mobility**

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| **CSI report number** | **CSI fields** |
| CSI report #n | SSBRI #1 as in Table 6.3.1.1.2-6, if reported |
| SSBRI #2 as in Table 6.3.1.1.2-6, if reported |
| … |
| SSBRI # as in Table 6.3.1.1.2-6, if reported |
| RSRP #1 as in Table 6.3.1.1.2-6, if reported |
| Differential RSRP #2 as in Table 6.3.1.1.2-6, if reported |
| … |
| Differential RSRP # as in Table 6.3.1.1.2-6, if reported |
| Note: *L* is the number of reported cells provided by higher layer parameter *noOfReportedCell* and *M* is the number of reported SSBRI/RSRP pairs per cell provided by higher layer parameter *nrofReportedRSPerCell.* |

* Comment #1: The definition of M should be aligned with the description of “*noOfReportedRSPerCell*” field to be captured in TS 38.331 or in RRC list provided by RAN1 to RAN2. where “*noOfReportedRSPerCell*” in RRC list or RAN1 agreements is used to describe the number of RSs per cell (e.g., SSBRI), not for the number of RSs and RSRP pairs per cell.
* Comment #2: Fix a typo to align para name between TS 38.212 and TS 38.331, “*nrofReportedRSPerCell” can be replaced with “noOfReportedRSPerCell”.*

Regarding “Cell indicator” field in Clause 7.3.1.2.1 Format 1\_0, * Comment #3: According to the following agreement achieved in RAN2#123 meeting, RAN2 has agreed that the maximum number of candidate cell is 8, which means that the max value of C is 8 or at most 4 bits is needed for “Cell indicator” field. Besides, if bit size is determined, we think that we need to further specify the meaning represented by each codepoint indicated by this field.

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| * The size of “Target Configuration ID” field in the LTM Command MAC CE is 3-bits, and the maximum number of LTM candidate cells in RRC configuration is 8.
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| NOKIA | Thanks for the updates. We have the following comments:1. For the “PRACH retransmission indicator” description, as vivo mentioned, its better to directly link this field with EarlyUlSynchConfig too. vivo’s proposed changes look good to us.
2. There is no agreement on the issue on how to determine the cell indicated by Cell indicator field is a serving cell but not a candidate cell. We are fine with vivo’s proposal (using value ‘0’), but we should wait for the RAN1 agreement on this.
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# Second round discussions

TBD