**3GPP TSG-RAN WG2 Meeting #127bis R2-2409358**

**Hefei, China, Oct 14th – 18th, 2024**

Source: ZTE Corporation

**Title: Report of [AT127b][105][MOB] (ZTE)**

Agenda item: 7.4.2

Document for: Discussion and decision

# 1 Introduction

This document is to handle the following email discussion:

* [AT127b][105][MOB] (ZTE)

 **Scope:** To discuss correction on R2-2408522 (including need of correction).

 **Intended outcome:** 37.340 CR in R2-2409357 to be in principle agreed. Discussion summary in R2-2409358 if needed. Email approval.

**Deadline:** Thursday 10:00am.

The participants are invited to provide their contact information in the following table.

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| Company | Contact: Name (E-mail) |
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# 2 Discussion

In R2-2408522 [1], three changes are proposed to address some miscellaneous clarification/editorial changes:

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| ***Reason for change:*** | To address some miscellaneous clarification/editorial changes:1. At last meeting, we made some clarifications on the definition of subsequent CPAC by adding “(conditional)” for PSCell addition/change, i.e. the PSCell addition/change also include the conditional case. Some similar clairfication can also be applied for PCell change and some other places of the related description.
2. At last meeting, we made some clarifications on the meaning of “SN format” and “MN format”, and corrected them to “in an SN RRC message” and “in an MN RRC message”, respectively. But the clarification is missed in some places where MN/SN format is still used.
3. If both intra-SN and inter-SN candidate PSCell(s) are configured simultaneously, the SN initiated intra-SN subsequent CPAC with MN involvement procedure shall be used to configure subsequent CPAC for intra-SN candidate PSCell(s). In such case, the security update configuration shall be provided for both intra-SN and inter-SN candidate PSCell(s). In the current SN initiated intra-SN subsequent CPAC with MN involvement procedure, it’s specified that a nested MN initiated SN modification procedure may be triggered when an SN security key change needs to be applied, but it's unclear how to provide the secuirty update configuration for candidate PSCell(s).
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| ***Summary of change:*** | 1. Added “(conditional)” before PSCell addition, PSCell change and PCell change in some descriptions of subsequent CPAC in section 3.1, 10.3.2 and 10.20.
2. Updated “in SN format” and “in MN format” to “received via an SN RRC message” and “received via an MN RRC message” in section 10.20.
3. Added a note “If there are prepared candidate PSCell(s) in other (candidate) SN(s), the MN may provide a list of KSN and associated sk-Counter values to the SN via the nested MN-initiated SN Modification procedure.” in SN initiated intra-SN subsequent CPAC with MN involvement in section 10.20.

**Impact Analysis**Impacted 5G architecture options: NR-DCImpacted functionality:Subsequent CPACInter-operability:1. If the network is implemented according to the CR and the UE is not, there is no inter-operability issue. 2. If the UE is implemented according to the CR and the network is not, there is no inter-operability issue. |

The 1st and 2nd changes are editorial corrections, to implement some corrections (which have been agreed at last meeting) to places where similar changes were missed in the current spec.

**Question 1: Do you agree with the 1st and 2nd changes proposed in R2-2408522?**

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The 3rd change is to clarify for which cases the SN security update configuration is required, and how to provide the SN security update configuration for intra-SN SCPAC with MN involvement procedure, to make the current procedure clear.

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| 2/3. The MN initiated SN Modification procedure may be triggered by *SN Modification Required* message, e.g. when an SN security key change needs to be applied.NOTE 12: For SN terminated bearers to be setup for which PDCP duplication with CA is configured in NR MCG side, the SN allocates up to 4 separate Xn-U bearers and the MN provides a logical channel ID for primary or split secondary path to the SN via the nested MN-initiated SN modification procedure.NOTE X: If there are prepared candidate PSCell(s) in other (candidate) SN(s), the MN may provide a list of KSN and associated sk-Counter values to the SN via the nested MN-initiated SN Modification procedure. |

**Question 2: Do you agree with the 3rd change proposed in R2-2408522?**

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**Any other comments:**

**Question 3: If companies have any other issues or proposed changes, please comment in the table below:**

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# 4 Conclusion

TBD

# 5 References

1. R2-2408522 Corrections for mobility enhancements in stage-2 ZTE Corporation, Ericsson CR Rel-18 37.340 18.3.0 0404 - F NR\_Mob\_enh2-Core