**3GPP TSG-RAN WG2 Meeting #117-e R2-220xxxx**

**Electronic Meeting, February 21 – March 3, 2022**

**Agenda item:** 5.4.1 NR RRC

**Source:** Intel Corporation (Rapporteur)

**Title:** [AT117-e][028][NR15] RRC misc II (Intel)

**Document for:**  Report

# Introduction

This document captures the discussion and report on the following offline discussion:

* [AT117-e][028][NR15] RRC misc II (Intel)

 Scope: Treat R2-2202637, R2-2202638, R2-2202639, R2-2203327, R2-2203328

 Ph1 Determine agreeable parts, Ph2 For agreeable parts, progress CRs

 Intended outcome: Report, Agreed CRs.

 Deadline: Schedule 1

A **first round** with **Deadline for comments W1 Thur Feb 24th 1200 UTC** to settle scope what is agreeable etc

A Final round with **Final deadline W2 Wed March 2nd 1200 UTC** to settle details / agree CRs etc.

Please provide the contact information in the following Table:

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| **Company** | **Point of contact** | **Email address** |
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# Discussion

## NCC handling for re-establishment and Resume

### Scope: Treat R2-2202637, R2-2202638, R2-2202639

R2-2202637 Issues with use of NCC for KgNB derivation during re-establishment and Resume procedure Intel Corporation discussion Rel-15 38.331 NR\_newRAT-Core

R2-2202638 Correction of NCC storage during re-establishment and Resume Intel Corporation CR Rel-15 38.331 15.16.0 2899 - F NR\_newRAT-Core

R2-2202639 Correction of NCC storage during re-establishment and Resume Intel Corporation CR Rel-16 38.331 16.7.0 2900 - A NR\_newRAT-Core

These documents/CRs observe that:

The current procedural text for NCC storage and key derivation in re-establishment procedure is incorrect and result in wrong KgNBs.

The current specification text related to the storage and usage of NCC during Resume procedure is inconsistent and incorrect and can result in wrong KgNB during Handover, Reestablishment or Resume procedure and failure of these procedures.

And proposes:

Proposal #1: Correct 38.331 procedural text for the re-establishment with the TP shown above (i.e. storing the NCC received in the *RRCReestablishment* message after updating the KgNB key with the received NCC).

Proposal #2: Discuss if the above specification corrections regarding handling of NCC for Resume procedure as captured on corresponding CR R2-2202638 are essential and if so for which release.

The CRs proposes to correct the re-establishment and Resume procedures as summarised in the cover page:

1. The storage of NCC is moved to after key generation in the procedural text [for re-establishment]
2. nextHopChainingCount received in RRC Release message is stored in UE Inactive context. The value of nextHopChainingCount used for the current keys is stored on receipt of Resume message and also on receipt of RRC Release in response to a ResumeRequest. It is clarified that the value of nextHopChainingCount received in RRCRelease message and stored in UE Inactive context is used for key derivation during ResumeRequest procedure.

**Q1: Please provide your company views on the proposed corrections – whether the corrections are useful/needed/Not essential and if needed, for which release.**

|  |  |  |  |
| --- | --- | --- | --- |
| Company | Correction to re-establishment useful/needed/Not essential | Corrections to Resume useful/needed/Not essential | Comments (including, if needed, how to capture/which release to capture) |
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**Summary:**

**Q2: Please provide comments, if any, on the technical details of the proposed corrections.**

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| --- | --- |
| Company | Comments, if any, on the technical details of the corrections  |
|  |  |
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**Summary:**

## Correction on Full Configuration regarding reconfigWithSync

### Scope: Treat R2-2203327, R2-2203328

R2-2203327 Correction on Full configuration ZTE Corporation, Sanechips CR Rel-15 38.331 15.16.0 2941 - F NR\_newRAT-Core

R2-2203328 Correction on Full configuration(R16) ZTE Corporation, Sanechips CR Rel-16 38.331 16.7.0 2942 - A NR\_newRAT-Core

These CRs propose that the current text on 5.3.5.11 Full configuration:

is incorrect, because the *fullConfig* is applicable to all cases of reconfiguration with sync

So we suggest to delete the words ‘(i.e., SpCell change)’ above.

And proposes the following correction:

1> if the *spCellConfig* in the *masterCellGroup* includes the *reconfigurationWithSync*:

**Q3: Please provide company views on the proposed correction - whether the correction is useful/needed/Not essential and if needed, for which release.**

|  |  |  |
| --- | --- | --- |
| Company | Correction is useful/needed/Not essential  | Comments (including, if needed, how to capture/which release to capture) |
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**Summary:**

**Q4: Please provide comments, if any, on the technical details of the proposed correction.**

|  |  |
| --- | --- |
| Company | Comments, if any, on the technical details of the correction  |
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**Summary:**

# Summary and proposals

[TBD]