**3GPP TSG-RAN WG2 Meeting #113-e R2-210xxxx**

**Electronic, 25 January – 5 February 2021**

**Agenda item: 6.11.3**

**Source: Ericsson (Rapporteur)**

**Title: Report of [AT113-e][504][2sRA] CRs on 2sRA Control Plane (Ericsson)**

**Document for: Discussion and decision**

# Introduction

The Session Chair decided to use the following email discussion to gather feedback and put forward suggestions for the CRs and papers submitted to the Rel-16 2-Step RA agenda item.

**[AT113-e][504][2sRA] CRs on 2sRA Control Plane (Ericsson)**

**Scope:**

* + - Discuss submitted CRs in the CP AI. Rapporteur will do preliminary assessment on criticality and need to have the CRs and companies can provide their views.

**Intended outcome:**

* + - Agreeable CRs

**Deadline for providing comments:**

* + - Companies comments/text suggestions and on need/criticality of the CRs– Jan. 20th
		- Rapporteur to make suggestions on which CRs should be pursued further and any possible merges – Jan. 21st
		- Updated CRs (the ones agreed to be pursued) from responsible companies Jan. 22nd

|  |  |
| --- | --- |
| Company | Contact Name, Email |
|  |  |
| Samsung | anilag@samsung.com |
| Nokia | samuli.turtinen@nokia-bell-labs.com |
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# Discussion

In this section, we discuss each document submitted to Agenda Item 6.11.3, which are as follows:

[R2-2101059](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_113-e/Docs/R2-2101059.zip)Corrections to conditions for 2-step RA Lenovo, Motorola Mobility

[R2-2101165](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_113-e/Docs/R2-2101165.zip) Correction for 2-step CFRA ZTE Corporation, Sanechips

[R2-2101812](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_113-e/Docs/R2-2101812.zip) Correction on C-RNTI replacement for 2-step RA Huawei, HiSilicon

**R2-2101059 Corrections to conditions for 2-step RA Lenovo, Motorola Mobility**

Summary of Changes from the CR:

1. IE MsgA-PUSCH-Config: in the description of msgA-HoppingBits-r16 the condition has been moved to a real condition and in ASN.1 the Need code “Need R” for msgA-HoppingBits-r16 has been replaced by “Cond FreqHopConfigured”.
2. In IE RACH-ConfigCommonTwoStepRA and IE RACH-ConfigGenericTwoStepRA the description of condition “2StepOnly” has been completed by adding “optionally present, Need S”.
3. A number of editorial issues have been fixed (by adding missing “TS”, correcting field names, etc.).

Rapporteur opinion: The CR proposes some useful editorial corrections although not essential and can be subject to merging. The addition of a condition may have more impact to implementations although it does not constitute as a functional change.

**Do you agree with the changes proposed in this CR?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Response** | **Comments** |
| Samsung |  | Agree with Rapporteur |
| Nokia, Nokia Shanghai Bell | Y |  |

**Summary:**

**Proposal:**

**R2-2101165 Correction for 2-step CFRA ZTE Corporation, Sanechips**

Summary of Changes from the CR:

1. Add “release dedicated msgA PUSCH resources provided in rach-ConfigDedicated, if configured” under the case that T304 of the SCG expires in 5.3.5.8.3.

Rapporteur opinion: The CR is useful as it corrects the discrepancy in SCG reconfiguration with sync failure as compared to the release of MCG MSGA PUSCH resources.

**Do you agree with the changes proposed in this CR?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Response** | **Comments** |
| Samsung | Agree |  |
| Nokia, Nokia Shanghai Bell |  | To our understanding, so far, we did not agree the usage of 2-step CFRA for anything else than HO. |

**Summary:**

**Proposal:**

**R2-2101812 M Correction on C-RNTI replacement for 2-step RA Huawei, HiSilicon**

Summary of Changes from the CR:

In clause 5.3.8, update descriptions on the C-RNTI replacement for 2-step RA.

Rapporteur opinion: A corrections seems to be needed in Rel-16 to avoid Integrity verification failure at the reception of successRAR. However, the proposed change impacts legacy as existing procedure use of “Temporary RNTI” terminology is replaced by a generic reference to 38.321. This should be avoided and an alternative correction, e.g. 2-step RA specific Rel-16 addition is preferred.

Rapporteur suggested alternative correction:

4> replace the C-RNTI with the temporary C-RNTI or C-RNTI (see TS 38.321[3]) in the cell the UE has received the RRCRelease message;

**Do you agree with the issue and that a change is needed as described in this CR? If so, what is your suggested correction in Rel-16 if other than above?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Response** | **Comments** |
| Samsung | Agree with comments | Prefer text change proposed by Rapporteur |
| Nokia, Nokia Shanghai Bell | Y | It seems the legacy text is similarly wrong as TC-RNTI has already been promoted to C-RNTI before the RRC processing. The TC-RNTI is promoted upon receival of contention resolution which is the earliest message that can include the RRCRelease message. This should be also corrected in Rel-15.We could use storing instead of replacing:4> store the C-RNTI (see TS 38.321 [3]). |

**Summary:**

**Proposal:**

# Conclusion

This report captures the feedback for the Control Plane contributions submitted for 2-step RA and, based on feedback from the companies, the following are proposed: