**3GPP TSG-RAN WG2 Meeting #113bis electronic R2-21xxxxx**

**Online, April 12 – April 20, 2021**

**Agenda item: 6.1.4.4**

**Source: Huawei (Rapporteur)**

**Title: Discussion summary of [AT113bis-e][024][NR16] Idle Inactive**

**Document for: Discussion and Decision**

# Introduction

This document provides the discussion summary of the following at-meeting offline discussion:

* [AT113bis-e][024]NR16] Idle Inactive (Huawei)

Scope: Treat R2-2102930, R2-2103168, R2-2102910

Phase 1, determine agreeable parts, Phase 2, for agreeable parts Work on CRs.

Intended outcome: Report and Agreed-in-principle CRs, if any

Deadline: Schedule A

The list of the involved contributions in this offline discussion are as follows:

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| [**R2-2102910**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2102910.zip) | Discussion on RNA configuration for UE in SNPN AM | Samsung Electronics Co., Ltd |
| [**R2-2102930**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2102930.zip) | Removal of duplicated statements related to IFRI handling | LG Electronics France |
| [**R2-2103168**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2103168.zip) | CR on the missing definition of Available SNPN in TS 38.304 | Huawei, HiSilicon |

Contact list

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| **Name** | **Company** | **Email** |
| Hyung-Nam Choi | Lenovo | hchoi5@lenovo.com |
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# Discussion

## 2.1 R2-2102910 Discussion on RNA configuration for UE in SNPN AM

The reason for change, the specific change proposed and consequence if not approved for the draft CR part in the Tdoc [R2-2102910](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2102910.zip) are summarized as follows, with some observations/proposals included in the discussion to support the proposed change:

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| **Reason for Change**  The UE operating in SNPN AM should use the PLMN ID associated to the registered SNPN if PLMN ID is absent in ran-NotificationAreaInfo as there is no registered PLMN ID.  **Specific change proposed**  Update the field description that the UE in SNPN AM uses the PLMN ID associated to the registered SNPN if PLMN ID is absent in ran-NotificationAreaInfo.  **Consequence of not having the change**  Wrong RNA update procedure is triggered by UE.  **Impacted TS:**TS 38.331 |

**Question 1:** Can the change proposed in [R2-2102910](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2102910.zip) be agreed?

* Option 1: Yes, the change can be directly agreed w/o revision.
* Option 2: Yes, intention of the change is agreeable, but some revisions are needed. If this option is selected, please provide the specific revision you think is needed.
* Option 3: No, the CR is not needed. Please clarify the reason, if this option is selected.

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| **Company** | **Option selected** | **Comments, if Option 2/3 is selected** |
| Lenovo | Option 2 | The intention is agreeable but there are following problems if PLMN-identity is present in SNPN:   * PLMN id alone is not sufficient as an SNPN id is uniquely identified by the combination of PLMN-id + NID. * The PLMN-identity refers to equivalent PLMNs but in SNPN no equivalent SNPNs are supported in Rel-16.   So, we need to clarify that PLMN-Identity shall not be present for SNPN. |
| Nokia | Option 2 | Wording may be improved: If the field is absent the UE not in SNPN AM uses the ID of the registered PLMN. If the field is absent the UE in SNPN AM uses the ID associated to the registered SNPN. |
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## 2.2 R2-2102930 Removal of duplicated statements related to IFRI handling

The reason for change, the specific change proposed and consequence if not approved for the CR [R2-2102930](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2102930.zip) are summarized as follows:

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| **Reason for Change**  The clause 5.3.1 on “Cell status and cell reservations”, there exist duplicate statements related to the case of intraFreqReselection set to “not allowed”, as highlightes in yellow and green below:  - If the field *intraFreqReselection* in *MIB* message is set to "not allowed":  - If the cell operates in licensed spectrum, or if this cell belongs to a PLMN which is indicated as being equivalent to the registered PLMN or the selected PLMN of the UE, or if this cell belongs to the registered SNPN or the selected SNPN of the UE:  - the UE shall not re-select a cell on the same frequency as the barred cell;  - else:  - the UE may select to another cell on the same frequency if reselection criteria are fulfilled.  - The UE shall exclude the barred cell and, if the cell operates in licensed spectrum or if this cell belongs to a PLMN which is indicated as being equivalent to the registered PLMN, also the cells on the same frequencyas a candidate for cell selection/reselection for 300 seconds.  The green part is redundant because the yellow part already specifices excactly the same behaviors, and hence shall be removed.  **Specific changes proposed**  Duplicated statements related to the case of intraFreqReselection set to “not allowed” highlighted in green in the Reason for change is removed.  **Consequence of not having the change**  Dplicate conditions related to the case of intraFreqReselection set to “not allowed” remain, which possibly increases inconsistency in the future.  **Impacted TS:**TS 38.304 |

**Question 2:** Can the change proposed in [R2-2102930](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2102930.zip) be agreed?

* Option 1: Yes, the CR can be directly agreed w/o revision.
* Option 2: Yes, intention of the CR is agreeable, but some revisions are needed. If this option is selected, please provide the specific revision you think is needed.
* Option 3: No, the CR is not needed. Please clarify the reason, if this option is selected.

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| **Company** | **Option selected** | **Comments, if Option 2/3 is selected** |
| Lenovo | Option 3 | Concerned text is not a duplicate. It was introduced by NR-U intentionally to specify that the UE shall not bar other cells on the same frequency when the cell does not belong to an equivalent PLMN. |
| Nokia | Option 3 | Agree with Lenovo |
| LG | Option1/2 | As explained by Lenovo, the concerned text was introduced by NR-U in R2-2002385 (CR 0149).  However, our point in R2-2102930 is that the condition checked by the green part is already check by the yellow part, which we see as a duplicated text. |
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## 2.3 R2-2103168 CR on the missing definition of Available SNPN in TS 38.304

The reason for change, the specific change proposed and consequence if not approved for the CR [R2-2103168](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2103168.zip) are summarized as follows:

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| **Reason for Change**  In TS 23.122, clause 1.2, the definition of **Available SNPN** is now referencing TS 38.304, as follows:  **Available SNPN:** For NG-RAN see 3GPP TS 38.304 [61].  However, throughout the current TS 38.304, there has been no definition on what the so called **Available SNPN** actually is, and this means a misalignment exists for the referencing between different Specs. Such an inter-Spec referencing mislignment should be fixed, in order to avoid ambiguity caused to the readers, and hence a definition of **Available SNPN** needs to be added (similar to the definition of “Available PLMN”).  **Specific changes proposed**  Add the definition of “Available SNPN” in TS 38.304.  **Consequence of not having the change**  Definition of **Available SNPN** cannot be found in the current Spec as indicated by TS 23.122, making this definition unclear in the current Specs.  **Impacted TS:**TS 38.304 |

**Question 3:** Can the change proposed in [R2-2103168](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_113bis-e/Docs/R2-2103168.zip) be agreed?

* Option 1: Yes, the CR can be directly agreed w/o revision.
* Option 2: Yes, intention of the CR is agreeable, but some revisions are needed. If this option is selected, please provide the specific revision you think is needed.
* Option 3: No, the CR is not needed. Please clarify the reason, if this option is selected.

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| **Company** | **Option selected** | **Comments, if Option 2/3 is selected** |
| Lenovo | Option 1 | CR is ok to be aligned with TS 23.122. |
| Nokia | Option 1 | Agree with Lenovo |
| **LG** | Option 1 | Agree with the reason of change |
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# Conclusions

The conclusion of the Phase-1 discussion of this offline [AT113bis-e][024]NR16] are as follows:

[TBD…]