3GPP TSG-RAN WG2#115-e R2-21xxxxx

Electronic meeting, 16th August – 27th August 2021

Agenda Item: 6.1.4.1.2

Source: Ericsson

Title: Report of [AT115-3][025][NR16] RRM & Measurements (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This contribution provides the summary of the following offline discussion.

* [AT115-e][025][NR16] RRM & Measurements (Ericsson)

 Scope: Determine agreeable parts and agree CRs, Treat R2-2108104, R2-2108105, R2-2108288, R2-2108289, R2-2108652, R2-2107~~5~~462, R2-2107504

 Intended outcome: Report, Agreed CRs.

 Deadline: Schedule 1

Discussions with Deadline **Schedule 1**:

A **first round** with **Deadline for comments Thursday Aug 19 1200 UTC** to settle scope what is agreeable etc

A Final round with **Final deadline Thursday Aug 26 1200 UTC.** to settle details / agree CRs etc. Additional check points etc if needed are defined by the Rapporteur. In case some parts of an email discussion need more time, doesn’t converge, need on-line treatment etc Rapporteur please contact chair.

# 2 Contact Information

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the rapporteur encourages the delegates who provide input to provide their contact information in this table:

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| --- | --- |
| Company | Contact: Name (E-mail) |
| Ericsson | Pradeepa Ramachandra (pradeepa.ramachandra@ericsson.com) |
| ZTE | LiuJing (liu.jing30@zte.com.cn) |
| Lenovo | Hyung-Nam Choi (hchoi5@lenovo.com) |
| Samsung | Sangyeob Jung (sy0123.jung@samsung.com) |
| Qualcomm | Mouaffac Ambriss (mambriss@qti.qualcomm.com)  |
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# 3 Discussion

## 3.1 Conditional handover related

1. [R2-2108104](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108104.zip) Modification of measId for conditional reconfiguration Ericsson CR Rel-16 38.331 16.5.0 2752 - F NR\_Mob\_enh-Core

1. [R2-2108105](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108105.zip) Modification of measId for conditional reconfiguration Ericsson CR Rel-16 36.331 16.5.0 4706 - F LTE\_feMob-Core

In legacy handover, when a measId is reconfigured, the UE removes the measurement reporting entries for this measId from the VarMeasReportList, if included. For conditional handover there is nothing stored in the variable, but the changed measId may be one out of two of a CHO execution condition, so a reconfigured measId should lead to a reset of the fulfillment state i.e. to non-fulfilled.

Therefore, in the procedure for measId modification, the CRs propose the fulfilment of a condition for a certain measId is reset when the measId is reconfigured.

**Question-1: Do you agree with the CR in [1] and [2]?**

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| --- | --- | --- |
| **Company name** | **Agree?****(Yes/No)** | **Comments**  |
| ZTE | Yes | The change makes sense to us.  |
| Samsung | Yes |  |
| QCOM | Yes |  |
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**Rapporteur Summary:**

To be added later

## 3.2 NeedForGap

1. [R2-2108288](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108288.zip) Measurement and gap configuration for Need for Gaps Ericsson discussion Rel-16 TEI16

In [3], Ericsson proposes the following:

Proposal 1 RAN2 to confirm that configuration of measurement objects without setup of corresponding measurement gap configuration (if needed by UE) will be accepted by UE (i.e. not consider inability to comply with the RRCReconfiguration and trigger re-establishment), but measurements may not be performed.

**Question-2: Do you agree with the following?**

**RAN2 to confirm that configuration of measurement objects without setup of corresponding measurement gap configuration (if needed by UE) will be accepted by UE (i.e. not consider inability to comply with the RRCReconfiguration and trigger re-establishment), but measurements may not be performed.**

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| **Company name** | **Agree?****(Yes/No)** | **Comments**  |
| ZTE | Yes | Our understanding is aligned with P1.For measurements that need gap assistance, UE only need to perform the measurements when gap is configured. But no RRC reestablishment will happen when gap is not provided.  |
| Samsung | Yes | We have same understanding with P1. |
| QCOM | Yes |  |
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**Rapporteur Summary:**

To be added later

1. [R2-2108289](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108289.zip) Clarification on measurement and measurement gap configuration Ericsson CR Rel-16 38.331 16.5.0 2761 - F TEI16

**Question-3: If the proposal in Question-2 is agreebale, do you agree with the CR in [4]?**

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| **Company name** | **Agree?****(Yes/No)** | **Comments**  |
| ZTE | No | We understand Proposal 1 is valid also for LTE system. But in LTE, we don’t explicitly mention it in SPEC. So we are fine to not have clarification in spec, otherwise, we may need to update both LTE and NR specs (if P1 is confirmed).  |
| Samsung | No | In general, we don't specify this kind of UE action i.e. do not measure MO. |
| QCOM | No | No need for this type of details to be included in the spec.  |
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**Rapporteur Summary:**

To be added later

1. [R2-2108652](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108652.zip) NeedForGap Clarification Qualcomm Incorporated CR Rel-16 38.331 16.5.0 2794 - F TEI16

In [5], Qualcomm mentions that clarifying the description of *gapIndicationIntra* field as the current text is not clear enough of the expected network behavior. For instance if UE indicates that *gapIndicationIntra* = “Gap”, network may still not configure gap, if SSB (associated with Initial DL BWP) is contained in all configured BWPs.

Therefore, [5] proposes to clarifiying the field description of the “gapIndicationIntra” by adding the text that describes the expected network behavior when UE indicates “gap” and all configured BWPs contain the SSB associated with Initial DL BWP.

**Question-4: Do you agree with the CR in [5]?**

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| **Company name** | **Agree?****(Yes/No)** | **Comments**  |
| ZTE | No | We think the motivation of CR is correct. However, we think it is already clear based on the “if any of” (shown below). The newly added sentence seems a bit redundant. So we prefer no change unless companies have different understandings of current field description. ***gapIndicationIntra***Indicates whether measurement gap is required for the UE to perform intra-frequency SSB based measurements on the concerned serving cell. Value *gap* indicates that a measurement gap is needed if any of the UE configured BWPs do not contain the frequency domain resources of the SSB associated to the initial DL BWP |
| Samsung | No | Same understanding with ZTE. |
| QCOM | Yes (Proponent) | It’s a clarification CR, given the value of this IE is named “gap” / “no-gap”, it can be understood that when UE sets it to “gap”, gap is **always** configured.An alternative suggestion is to rename the value of this IE to “legacy” / “no-gap” to indicate that either the legacy behavior is followed or no-gap is required for intra-freq measurement.  |
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**Rapporteur Summary:**

To be added later

## 3.3 SNPN+DCCA

1. [R2-2107462](file:///D%3A%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2%5C%5CTSGR2_115-e%5C%5CDocs%5C%5CR2-2107462.zip%22%20%5Co%20%22D%3ADocuments3GPPtsg_ranWG2TSGR2_115-eDocsR2-2107462.zip) Impact of SNPN Access Mode to Idle/inactive measurement FGI, Asia Pacific Telecom discussion
	* 1. Moved from 6.1.4.1

In [6], FGI, Asia Pacific Telecom propose the following.

**Proposal 1:** To avoid UE power consumption caused by the unnecessary E-UTRA idle/inactive measurement, the UE should not perform idle/inactive measurement based on the stored measIdleCarrierListEUTRA when the UE is operating in SNPN access mode.
**Proposal 2:** To avoid signalling overhead caused by unnecessary E-UTRA idle/inactive measurement, the UE should not report measResultIdleEUTRA to the serving cell when the UE is operating in SNPN access mode.
**Proposal 3:** Running T331 should be stopped when PLMN selection or SNPN selection is performed on request by NAS.
**Proposal 4:** The UE operating in SNPN access should not perform E-UTRA idle/inactive measurement after T331 has expired or stopped.

**Question-5: Do you agree with the proposal 1-4 in [6]?**

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| **Company name** | **Agree?****(Yes/No)****(None, P1, P2, P3, P4, All)** | **Comments**  |
| Lenovo | No, none of the proposals | Per definition a UE in SNPN Access Mode will access only SNPNs. Furthermore, SNPN is supported in NR only. Therefore, it looks odd that such a UE may indicate the support of E-UTRA idle/inactive measurements in connected state. Likewise it looks odd that the serving SNPN would configure the UE in SNPN Access Mode with idle/inactive LTE measurements. We consider this as a NW misconfiguration. |
| Samsung | None | In 5.7.8.2a, it is clearly secified that if UE supports NE-DC ~~, and NE-DC is not supported for SNPN. Hence, we belive that its related changes are not needed/essential. In our understanding, RAN2 already agreed to not stop T331 when PLMN/SNPN selection is performed because UE anyway will perform RA procedure. |
| QCOM | None  | T331 is already stopped upon transition to NR  |
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**Rapporteur Summary:**

To be added later

1. [R2-2107504](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2107504.zip) Corrections of Idle/inactive measurement under SNPN Access Mode FGI, Asia Pacific Telecom CR Rel-16 38.331 16.5.0 2729 - A NG\_RAN\_PRN-Core
	* 1. Moved from 6.1.4.1

**Question-6: If the proposal in Question-5 is agreebale, do you agree with the CR in [7]?**

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| **Company name** | **Agree?****(Yes/No)** | **Comments**  |
| Lenovo | No | See comments to Q5. |
| Samsung | No | See our comments in Q5. |
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**Rapporteur Summary:**

To be added later

# 3 Conclusion

To be added later.