3GPP TSG-RAN WG2 #116-e R2-211xxxx

Electronic meeting, 1st November – 12th November 2021

Agenda Item: 5.4.1.2

Source: Ericsson

Title: Summary of [AT116-e][009][NR16] Connection Control II

Document for: Discussion, Decision

# 1 Introduction

This document is to handle the following email discussion:

* [AT116-e][009][NR16] Connection Control II (Ericsson)

 Scope: Determine agreeable parts in a first phase, for agreeable parts agree on CRs. Treat [R2-2109340](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2109340.zip), [R2-2109887](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2109887.zip), [R2-2109888](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2109888.zip), [R2-2110682](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110682.zip), [R2-2110683](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110683.zip), [R2-2110684](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110684.zip), [R2-2111036](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2111036.zip), [R2-2110945](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110945.zip), [R2-2110012](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110012.zip), [R2-2110756](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110756.zip),

 Intended outcome: Report, Agreed CRs if applicable

 Deadline: Schedule 1

Regarding the deadlines, I would like to set the following 2 deadlines:

1) First deadline on **Thursday Nov 4 1200 UTC** to settle scope what is agreeable.

2) Second deadline on **Thursday Nov 11 1200 UTC** to agree the CRs (where applicable) and final check.

# 2 Contact information

|  |  |
| --- | --- |
| Company (Name) | Email |
| Samsung (Sangyeob Jung) | sy0123.jung@samsung.com |
| Nokia | amaanat.ali@nokia.com |
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# 3 Discussion

## 3.2 Inter-MN RRC resume without SN change

The following documents have been submitted regarding the LS received in R2-2109340 on the support of the inter-MN RRC resume without the SN change:

[R2-2109340](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2109340.zip) LS on inter-MN RRC resume without SN change (R3-214360; contact: Qualcomm) RAN3 LS in Rel-17 LTE\_NR\_DC\_enh2-Core To:RAN2

Moved from 8.2.1

[R2-2109887](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2109887.zip) Discussion on inter-MN RRC resume without SN change ZTE Corporation, Sanechips discussion Rel-16 LTE\_NR\_DC\_CA\_enh-Core

[R2-2109888](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2109888.zip) Reply LS on inter-MN RRC resume without SN change ZTE Corporation, Sanechips LS out Rel-16 LTE\_NR\_DC\_CA\_enh-Core To:RAN3

[R2-2110682](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110682.zip) Support of inter-MN RRC resume without SN change Ericsson discussion Rel-16 TEI16, LTE\_NR\_DC\_enh2-Core

[R2-2110683](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110683.zip) [Draft] Reply LS on inter-MN RRC resume without SN change Ericsson LS out Rel-16 TEI16, LTE\_NR\_DC\_enh2-Core To:RAN3

[R2-2110684](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110684.zip) Clarification on restore MCG and SCG in case of RRC resume Ericsson CR Rel-16 37.340 16.7.0 0289 - F TEI16, LTE\_NR\_DC\_CA\_enh-Core

[R2-2111036](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2111036.zip) Discussion on LS on Inter-MN RRC resume without SN change vivo discussion Rel-16 TEI16

[R2-2110945](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110945.zip) Inter-MN RRC resume without SN change - RAN2 aspects Qualcomm Incorporated, Nokia, Nokia Shanghai Bell discussion Rel-17

Moved from 8.2.1

[R2-2110012](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110012.zip) Reply LS on Inter-MN RRC resume without SN change Qualcomm Incorporated LS out Rel-17 To:RAN3

Moved from 8.2.1

Based on the submitted contributions, there are basically two questions that RAN2 needs to answer to RAN3. The first one is whether current RRC signalling support the inter-MN RRC resume without SN change from a RAN2 perspective, and the second one is whether to have the support of this in Rel-16 or in Rel-17.

**Question 1**: Do company agree that current RRC signalling can already support the use case of inter-MN RRC resume without SN change?

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| --- | --- | --- |
| Company  | Agree (y/n) | Comments |
| Samsung | Yes with comments | Our understanding is that there is no restriction not to support it from a RAN2 perspective for now. On the other hand, we wonder whether the concerned use case is practically valid or not i.e. early measurement can not be received by the target MN before target MN makes the decision i.e. only blind decision can be allowed unlike inter-MN mobility without SN change. |
| Nokia | Yes | As proponent we think this should be clarified based on [R2-2110945](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110945.zip). |
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**Question 2**: If the support of inter-MN RRC resume without SN change is to be introduced by RAN3, RAN2 would like to suggest to have this additional use case in Rel-16 or Rel-17?

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| Company  | Rel16/Rel-17 | Comments |
| Samsung | Rel-17 | There seems no RAN2 specification impact except minor clarification i.e. R2-2110684. On the other hand, we think it is anyway optimization so it makes more sence to introduce Xn message enhancement in R17 so we slightly prefer to have this use case in R17. But we are OK to have it in R16 without any Xn message enhancement.  |
| Nokia | Rel-16 | We prefer to have this from Rel-16 |
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Finally, a company submitted a CR in order to clarify that even if the SCG/MCG restore feature has been introduced already in Rel-16, the use case of inter-MN RRC resume is not supported (meaning that the restore of the SCG/MCG is done only in case the UE resumes in the same MN).

 [R2-2110684](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110684.zip) Clarification on restore MCG and SCG in case of RRC resume Ericsson CR Rel-16 37.340 16.7.0 0289 - F TEI16, LTE\_NR\_DC\_CA\_enh-Core

**Question 3**: Do companies agree with the changes proposed in [R2-2110684](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110684.zip)?

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| Company  | Agree (y/n) | Comments |
| Samsung | See comments | It depends on the outcome of Q1 i.e. whether to confirm the support of inter-MN RRC resume without SN change in Rel-16. If agreed not to be supported, we are OK with the CR.  |
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## 3.1 IIOT – Mobility

[R2-2110756](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110756.zip) Correction to need code for drb-ContinueEHC-DL and drb-ContinueEHC-UL MediaTek Inc. CR Rel-16 38.331 16.6.0 2845 - F NR\_IIOT-Core

**Question 1**: Do company agree with the changes proposed in the CR in [R2-2110756](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110756.zip)?

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| Company  | Agree (y/n) | Comments |
| Samsung | No strong view | We have some sympathy with this motivation. However, no critical problem would be foreseen in the current specification. |
| Nokia | Neutral | Sounds logical if those fields are really one shot and there is no impact upon absence |
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# Conclusion

Based on the discussion in the previous sections we propose the following: