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][002][NR15] RRC Inter Node Other and LTE

Document for: Discussion, Decision

# 1 Introduction

This document is to handle the following email discussion:

* [AT116-e][002][NR15] RRC Inter Node Other and LTE (Ericsson)

 Scope: Determine agreeable parts in a first phase, for agreeable parts agree on CRs. Treat R2-2110460, R2-2110461, R2-2110462, R2-2110463, [R2-2110696](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110696.zip), [R2-2109370](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2109370.zip), [R2-2111182](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2111182.zip), [R2-2110022](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110022.zip), [R2-2110796](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110796.zip), [R2-2110939](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110939.zip), [R2-2110942](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_116-e%5CDocs%5CR2-2110942.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

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| --- | --- |
| Company (Name) | Email |
| Nokia | amaanat.ali@nokia.com |
| Lenovo | hchoi5@lenovo.com |
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# 3 Discussion

Companies are encouraged to provide comments for each CR/document under this email discussion:

## 3.1 Inter-Node RRC messages

[R2-2110460](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110460.zip) Correction on reestablishmentInfo ZTE Corporation, Sanechips CR Rel-15 38.331 15.15.0 2834 - F NR\_newRAT-Core

[R2-2110461](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110461.zip) Correction on reestablishmentInfo(R16) ZTE Corporation, Sanechips CR Rel-16 38.331 16.6.0 2835 - A NR\_newRAT-Core

[R2-2110462](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110462.zip) Correction on reestablishmentInfo ZTE Corporation, Sanechips CR Rel-15 36.331 15.15.0 4732 - F LTE\_5GCN\_connect-Core

[R2-2110463](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110463.zip) Correction on reestablishmentInfo(R16) ZTE Corporation, Sanechips CR Rel-16 36.331 16.6.0 4733 - A LTE\_5GCN\_connect-Core

**Question 1**: Do company agree with the changes proposed in the CRs in [R2-2110460](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110460.zip), [R2-2110461](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110461.zip), [R2-2110462](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110462.zip), and [R2-2110463](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110463.zip)?

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| Company  | Agree (y/n) | Comments |
| Nokia | Agree | Yes the alignment seems to be required |
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## 3.2 RRC Rapporteur CR

This CR usually continues in a short email discussion after the meeting, but companies are encouraged to provide preliminary comments, if there is something to be highlighted.

[R2-2110696](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110696.zip) Miscellaneous non-controversial corrections Set XII Ericsson CR Rel-15 38.331 15.15.0 2843 - F NR\_newRAT-Core

 **Question 2**: Do company agree with the changes proposed in the CRs in [R2-2110696](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110696.zip)?

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| Company  | Agree (y/n) | Comments |
| Nokia | Agree |  |
| Lenovo | Yes but | 1. Cover page: latest spec version is “15.15.0”.
2. Further issues can be fixed as well:
* In SIB4: in IE InterFreqCarrierFreqInfo the need code "Need R" for field ss-RSSI-Measurement is missing.
* 6.4: in the comments to maxNrofP0-PUSCH-AlphaSets and maxNrofP0-PUSCH-AlphaSets-1 the cited reference “38,213” should be corrected to “TS 38.213”.

maxNrofP0-PUSCH-AlphaSets INTEGER ::= 30 -- Maximum number of P0-pusch-alpha-sets (see 38,213, clause 7.1)maxNrofP0-PUSCH-AlphaSets-1 INTEGER ::= 29 -- Maximum number of P0-pusch-alpha-sets minus 1 (see 38,213, clause 7.1)* 6.4: in the comment to maxNrofCandidateBeams the redundant word „that“ can be removed.

maxNrofCandidateBeams INTEGER ::= 16 -- Max number of PRACH-ResourceDedicatedBFR that in BFR config. |
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## 3.3 Measurements

### 3.3.1 Association between serving cell and measurements object

[R2-2109370](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2109370.zip) Association between serving cell and measurement object (R5-215762; contact: HiSilicon) RAN5 LS in Rel-15 5GS\_NR\_LTE-UEConTest To:RAN2

Moved from 3

[R2-2111182](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2111182.zip) Discussion on association between serving cell and measurement object MediaTek Inc. discussion Rel-15

Regarding this issue, the contribution in R2-2111182 formulates the following proposals:

**Proposal 1**: Reply RAN5 that the servingCellMO indication is used to determine the association between serving cell and measurement object in TS 38.331.

**Proposal 2**: Reply RAN5 that, for event A3/A5 triggering reporting configured on SCC, it is compulsory to configure servingCellMO for SCell in order to enable UE considering SCell to be a neighbouring cell.

**Question 3**: Do company agree to reply RAN5 that the servingCellMO indication is used to determine the association between serving cell and measurement object in TS 38.331?

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| Company  | Agree (y/n) | Comments |
| Nokia | Agree |  |
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**Question 4**: Do company agree to reply RAN5 that, for event A3/A5 triggering reporting configured on SCC, it is compulsory to configure servingCellMO for SCell in order to enable UE considering SCell to be a neighbouring cell?

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| Company  | Agree (y/n) | Comments |
| Nokia | Agree |  |
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### 3.3.2 L3 filtering clarification

[R2-2110022](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110022.zip) L3 Filtering (filterCoefficient) Clarification Apple, Ericsson discussion Rel-16 NR\_newRAT-Core, TEI16

Moved from 6.1.4.1.2

[R2-2110796](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110796.zip) Draft LS to RAN4 on L3 filter configuration Apple, Ericsson LS out Rel-16 NR\_newRAT-Core, TEI16 To:RAN4

Moved from 6.1.4.1.2

Regarding this issue, the contribution in R2-2110022 fomulates the following proposals:

**Proposal 1:** Confirm that the UE operation on the adaptation of the filter coefficient configuration is independent from the L1/L2 mechanism.

**Proposal 2:** It is expected that NW and UE have the same understanding on the sample rate X.

**Proposal 3:** Send an LS to RAN4 on RAN2’s understanding of the impact of L1/L2 mechanism on the L3 sampling rate X used for filter co-efficient configuration.

**Question 5**: Do company agree to confirm that the UE operation on the adaptation of the filter coefficient configuration is independent from the L1/L2 mechanism?

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| Company  | Agree (y/n) | Comments |
| Nokia | P1 is very confusingly worded. Here is our understanding. | Already during WCDMA and LTE specification work it was agreed that L3 filter coefficients are provided based on the RAN4 (L1) measurement period and UE implementations need to scale the practical L3 filter coefficients based on this information to match with the actual sampling rate(s) used in the implementation. The L3 filtering should not change when UE implementation changes its internal sampling rate also all UEs should use the same reference period, which is UE measurement period, when defining the actual L3 filter coefficients in the UE implementation. Each UE vendor may decide its own actual sampling rate in the implementation, also UE vendor can vary sampling rate if it likes but this should not impact the outcome of L3 filtering output or effective length of L3 filter. |
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**Question 6**: Do company agree that it is expected that NW and UE have the same understanding on the sample rate X?

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| Company  | Agree (y/n) | Comments |
| Nokia | No | L3 filter coefficients are provided based on the RAN4 (L1) measurement period and UE implementations need to scale the practical L3 filter coefficients based on this information to match with the actual sampling rate(s) used in the implementation.So we are not sure why network needs to be in sync to the UE implementation choice as the black box just expects L3 filter coefficients are provided based on the RAN4 (L1) measurement period.Note the L3 filtering process is agnostic to UE implementation of sample rate etc. It is the UEs responsibility to ensure that UE vendor can vary sampling rate if it likes but this should not impact the outcome of L3 filtering output or effective length of L3 filter. |
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**Question 7**: Do company agree to send an LS to RAN4 (be [R2-2110796](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110796.zip) the baseline) on RAN2’s understanding of the impact of L1/L2 mechanism on the L3 sampling rate X used for filter co-efficient configuration?

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| Company  | Agree (y/n) | Comments |
| Nokia | Yes, but | We can ask a question to confirm an understanding but we are really unsure what changes in this and what is the exact question as the filtering is there for several RAT generations now and hasn’t changed at all.In short, L3 filtering coefficient k is associated with sampling rate X (L1 value), but that cannot be avoided. The question in the LS is also ambiguous. |
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## 3.4 LTE changes – Correction to nas-Container

[R2-2110939](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110939.zip) Correction to nas-Container Sequans Communications CR Rel-15 36.331 15.15.0 4741 - F NR\_newRAT-Core, LTE\_5GCN\_connect-Core

[R2-2110942](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110942.zip) Correction to nas-Container Sequans Communications CR Rel-16 36.331 16.6.0 4742 - A NR\_newRAT-Core, LTE\_5GCN\_connect-Core

**Question 7**: Do company agree with the changes proposed in [R2-2110939](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110939.zip) and [R2-2110942](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_116-e/Docs/R2-2110942.zip)?

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| Company  | Agree (y/n) | Comments |
| Nokia | Yes, but | The problem statement is correct though not sure UEs in the field misunderstood this and there is a real field issue. Would support the clarification though as it makes sense if companies do agree that there is a potential for misunderstanding. |
| Lenovo | Yes but | 1. In the sentence below some minor issues need to be fixed: to be aligned with ASN.1 „EPS“ should be corrected to “EPC”, „5GS“ to “5GC” and „NAS“ should be set in lowercase letters.

*In case of inter-system handover from EPS to 5GS, the content of NAS-Container is the value part of the S1 mode to N1 mode NAS transparent container IE.*1. Cover page: the statements to “Inter-operability” and “Consequences if not approved” should be corrected. Were there any issues observed in the field wrt the content of nas-Container, i.e. RRC reconfiguration or HO failures? We tend to think that current NAS implementations at UE and NW side are correctly implemented acc. to TS 24.501, so the CRs fix only some misalignments with NAS and ASN.1.
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# Conclusion

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