3GPP TSG-RAN WG2 #118-e R2-220xxxx

Electronic meeting, 9th May – 20th May 2022

Agenda Item: 5.1.4

Source: Ericsson

Title: [AT118-e][016][NR1516] Connection Control I (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

The following document is to provide and collect input about a way forward related to the following email discussion:

* [AT118-e][016][NR1516] Connection Control I (Ericsson)

Scope: Treat [R2-2205965](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205965.zip), [R2-2205966](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205966.zip), [R2-2205867](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205867.zip), [R2-2205406](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205406.zip), [R2-2205407](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205407.zip), [R2-2205868](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205868.zip), [R2-2205614](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205614.zip), [R2-2205586](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205586.zip), [R2-2205599](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205599.zip)

Ph1 Determine agreeable parts, Ph2 for agreeable parts agree CRs (offline agreement, CB online only if necessary).

Intended outcome: Report, Agreed CRs

Deadline: Schedule 1

A first round with Deadline for comments W1 Thursd May 12th 1200 UTC to settle scope what is agreeable etc  
A Final round with Final deadline W2 Wednesd May 18th 1200 UTC to settle details / agree CRs etc.

# 2 Contact information

|  |  |  |
| --- | --- | --- |
| Company | Name | Email address |
| Samsung | Seungri Jin | seungri.jin@samsung.com |
| Nokia |  | amaanat.ali@nokia.com |
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# 3 Discussion

## 3.1 L1 parameters

[R2-2205965](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205965.zip) Correction of Need Code in IE SearchSpace Ericsson CR Rel-15 38.331 15.17.0 3140 - F NR\_newRAT-Core, TEI16

[R2-2205966](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205966.zip) Correction of Need Code in IE SearchSpace Ericsson CR Rel-16 38.331 16.8.0 3141 - A NR\_newRAT-Core, TEI16

[R2-2205967](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205967.zip) Correction of Need Code in IE SearchSpace Ericsson CR Rel-17 38.331 17.0.0 3142 - A NR\_newRAT-Core, TEI16

The CRs correct a conflict between Need Code and Field Description.   
Strictly, the proposed change is not backwards compatible.

**Note** there is a typo in the Rel-15 CR. CR missed to add the Need Code “S” that replaces the “R”.

**Question 1:** Do companies agree with the changes proposed in CRs listed above?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
| Samsung | See the comments | Either approach has no functional differences but this Need R with adding the description of absent condition violates the general guideline.  From our understanding, Need R without the description of absent condition is also possible (i.e. remove “If the field is absent, the UE applies the value 1 slot, except for DCI format 2\_0”) because this field is used for “Number of consecutive slots that a SearchSpace lasts in every occasion”. In other words, absent of this field, UE use the value 1 slot for monitoring of SearchSpace.  If we strictly apply the rule for handing need code, we share the view from this change but no strong view on this change. |
| Nokia | Yes | This seems to have been missed and we are okay to correct this. |
| OPPO | Yes with comments | It seems there is no issue if the need code for duration is Need R, because the value range starts from 2 which is the minimal value for consecutive slots, otherwise our understanding is the UE will use 1 slot.  But we also share the view that if following strictly the rule for the need code, it should be Need S.  For R15/R16 CR, are there BC issues? |
| Huawei, HiSilicon | Yes | We would consider this as a typo (Agree with Samsung there is no functional difference, as Need R with the description means the same things as Need S with the description).  We suggest to not highlight this in a separate CR, i.e. can be merged into the rapporteur CR.  In the Rel-15 CR, the “S” is still missing? |
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## 3.2 L2 parameters

[R2-2205406](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205406.zip) CR on 38.331 for sn-FieldLength ZTE Corporation,Sanechips CR Rel-15 38.331 15.17.0 3079 - F NR\_newRAT-Core

[R2-2205407](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205407.zip) CR on 38.331 for sn-FieldLength ZTE Corporation,Sanechips CR Rel-16 38.331 16.8.0 3080 - A NR\_newRAT-Core

The CRs proposes to correct the field description of *sn-FieldLength* as ‘The value of *sn-FieldLength* for a RLC shall be changed only using reconfiguration with sync’

**Question 2:** Do companies agree with the changes proposed in CRs listed above?

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Samsung | Yes | We think the proposed change is correct. |
| Nokia | Not sure | We are not sure really we got the essence of the change. Is it editorial as there is no problem with interoperability but still some essential correction? |
| OPPO | No | We understand the issue is that for SN-fieldLength, the field descriptions says it can only be changed using reconfigure with sync. However, for RRC re-establishment case, the SN-FieldLength may also need to be configured by bearer type change which is not supposed to be the way of reconfiguration with sync. We share sympathy on this issue if our understanding is correct.  However, we don’t think by updating the “DRB” to “RLC” in the field description, the issue can be solved because the concerned part is the “reconfiguration with sync”. Or can the CR proponent further elaborate it? |
| Huawei, HiSilicon | No | In the scenario mentioned in the CR, the SCG DRB is not valid which should be released, and a new MCG DRB should be added. No issue in this case we think. |
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## 3.3 n77

[R2-2205968](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205968.zip) WF for NS\_55 in NR CA Ericsson discussion Rel-16 NR\_RF\_FR1-Core, TEI16

The document proposes to send LS to RAN4 to ask RAN4 to decide on solution for NS\_55 in NR CA.

**Question 3:** Do companies agree with sending LS to RAN4 and await further RAN4 input.

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Samsung | Yes | We are fine to send LS to RAN4. |
| Nokia | See comment | Our preference would be to have an explicit exception for this (for now) - otherwise we get very strange behaviour when C-band cells start using NS-55 and UEs do not camp on the cells because of that. |
| Huawei, HiSilicon |  | Our preference is also to have an exception for this.  If there is no consensus in RAN2, we are fine with an LS. |
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## 3.4 SMTC configuration

[R2-2205614](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205614.zip) SMTC configuration for target cell Lenovo CR Rel-16 38.331 16.8.0 3103 - F NR\_newRAT-Core, TEI16

[R2-2205586](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205586.zip) SMTC configuration for target cell Lenovo (Beijing) Ltd CR Rel-15 36.331 15.17.0 4804 - F NR\_newRAT-Core

[R2-2205599](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_118-e/Docs//R2-2205599.zip) SMTC configuration for target cell Lenovo (Beijing) Ltd CR Rel-16 36.331 16.8.0 4805 - F NR\_newRAT-Core

The CRs suggest to change ‘SN change’ to ‘PSCell change’ in the field description of targetCellSMTC-SCG-r16.

**Question 4:** Do companies agree with the changes proposed in CRs listed above?

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Samsung | Yes |  |
| Nokia | No | There is a potential misunderstanding of Lenovo. It was clarified  earlier already that when there is no SN change, the smtc is based  on the NR PSCell. This scenario for NR-DC has similar understanding.  So, we are not sure the change is really needed. |
| OPPO | Yes |  |
| Huawei, HiSilicon | No | Similar understanding as Nokia. Not sure PSCell change without SN change requires SMTC configuration. |
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# 4 Conclusion

Tbd

# 5 References