3GPP TSG-RAN WG2 #111-e R2-20xxxxx

Electronic Meeting, 17th – 28th August 2020

Agenda Item: 5.4.1.4

Source: ZTE Corporation

Title: [AT111-e][005][NR15] Misc Configuration (ZTE)

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

* [AT111-e][005][NR15] Misc Configuration (ZTE)

Scope: Treat [R2-2008091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008091.zip), [R2-2008092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008092.zip), [R2-2007264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007264.zip), [R2-2007265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007265.zip), [R2-2006889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006889.zip), [R2-2006890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006890.zip), [R2-2007121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007121.zip), [R2-2007122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007122.zip), [R2-2008086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008086.zip), [R2-2008087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008087.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

# 2 Discussion

Companies are requested to add their comments for each of the treated CRs of this email discussion in the boxes below (one for each CR to be treated).

## 2.1 Clarification on re-establishment procedure

[R2-2008091](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008091.zip) Clarification on re-establishment procedure (R15) ZTE corporation, Sanechips CR Rel-15 38.331 15.10.0 1987 - F NR\_newRAT-Core Late

[R2-2008092](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008092.zip) Clarification on re-establishment procedure (R16) ZTE corporation, Sanechips CR Rel-16 38.331 16.1.0 1988 - A NR\_newRAT-Core Late

|  |  |  |
| --- | --- | --- |
| Company | Agree?  (Yes or No) | Comments |
| Qcom | No | It’s network responsibility (i.e. target cell in this case) to ensure all proper fields are included and configured accordingly during re-establishment.  In addition, the proposed change is an NBC. |
| Ericsson (Antonino Orsino) | No | First, our understanding is that this change prevent the use of delta configuration in the future. Of course, we could still do delta on the measConfig and otherConfig, but maybe the benefits are not so relevant in this case.  Second, we think the reason for change mentioned in the CR is not enterely true. Our understanding is that the UE, before the re-establishment procedure, shall:  1> apply the default L1 parameter values as specified in corresponding physical layer specifications except for the parameters for which values are provided in *SIB1*;  1> apply the default MAC Cell Group configuration as specified in 9.2.2;  1> apply the CCCH configuration as specified in 9.1.1.2;  Further, when UE transmits the re-establishment request message, the UE shall:  > apply the specified configuration defined in 9.2.1 for SRB1;  This means that the UE implicitly releases the MAC-CellGroupConfig, physicalCellGroupConfig and source cell SRB1 config. The reason for it is to bring UE to a known state for the target. Therefore, the changes proposed in the CR are not needed.  Third, we agree with Qualcomm that the proposed change is NBC and we should avoid such changes in this late stage of Rel-15. |
| Huawei, HiSilicon | No | We don’t see a real issue either.  For the first issue mentioned in this CR, it should be up to network to provide a valid configuration.  For the second issue mentioned in the CR, we also think that it is clear in specification that the UE has applied default SRB1 configuration when transmitting RRCRe-establishmentRequest, i.e. option-1. |
| Nokia | No | CR is poorly motivated. The Rel-15 CR talks about a conditionalReconfiguration which never existed in this specification. Then what is the issue on the field that this is trying to solve. By releasing the entire MCG there is no bearer information left which means UE effectively starts from IDLE? Releasing RB configuration leads to delta signalling not being supported if re-establishment succeeds, which means bearers can't be resumed. We also think it's better to talk about MCG spCellConfig if something is changed, and that could be part of rapporteur CR. |
| MediaTek | No | The proposed change is clear NBC and is not acceptable to us.  UE already apply default MAC/PHY configuration so that it can communicate with target node for SRB1 setup. After that, if target does not understand the source node configuration, it could just use full configuration. We think current procedure text is fine. |
|  |  |  |

## 2.2 Incorrect creation of SCG MAC entity

[R2-2007264](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007264.zip) Incorrect creation of SCG MAC entity Ericsson CR Rel-15 38.331 15.10.0 1814 - F NR\_newRAT-Core

[R2-2007265](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007265.zip) Incorrect creation of SCG MAC entity Ericsson CR Rel-16 38.331 16.1.0 1815 - A NR\_newRAT-Core

|  |  |  |
| --- | --- | --- |
| Company | Agree?  (Yes or No) | Comments |
| Qcom | Yes/No | It seems a redundant info as it’s already mentioned during “SCG establishment”, but we’re fine if majority agrees |
| Ericsson (Antonino Orsino) | Yes | We are the proponent company. As explained also in the CR coverpage, the issue is that the UE should create an SCG MAC entity also when the configuration received is for the MCG (in case of DC) or for NR SA. We believe that this is not the correct behaviour and it should be quite straigforward to correct it. |
| Huawei, HiSilicon | No | The spec has clearly said “(i.e. SCG establishment)”. We don’t see any room for misunderstanding. |
| Nokia | No | The procedure is called with either the MCG or SCG in perspective. So the clarification is really not required. |
| MediaTek | No strong view | UE should not create SCG MAC entity while the configuration is for MCG MAC. The logic of the CR is correct but the modification is not really important. No UE implementation really do this kind of behaviour. No strong view. Could consider it in Rapporteur’s CR if majorities want to have this correction. |
|  |  |  |

## 2.3 Correction on condition of SyncAndCellAdd

[R2-2006889](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006889.zip) CR on condition of SyncAndCellAdd ZTE Corporation, Sanechips CR Rel-15 38.331 15.10.0 1748 - F NR\_newRAT-Core

[R2-2006890](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2006890.zip) CR on condition of SyncAndCellAdd ZTE Corporation, Sanechips CR Rel-16 38.331 16.1.0 1749 - A NR\_newRAT-Core

|  |  |  |
| --- | --- | --- |
| Company | Agree?  (Yes or No) | Comments |
| Qcom | Yes but | we agree with the intention, but we don't agree with the wording as it adds more confusion.  Suggested wording:  For SpCell, the field is optionally present, Need N, upon reconfiguration without reconfigurationWithSync, and upon reconfiguration with reconfigurationWithSync to the same SpCell.~~other than PCell change and PSCell addition/change.~~ |
| Ericsson (Antonino Orsino) | Yes with comment | We agree with the intention and we actually think that ZTE wording is a bit more clear than what proposed by Qualcomm. However, we are also open to other wording suggestion. |
| Huawei, HiSilicon | Yes, but | The intention of “upon PCell change and PSCell addition/change” should be reconfiguration with sync. So we tend to agree with Qualcomm’s change. |
| Nokia | Yes, but | Clarification seems reasonable but does not add any additional value on top of what the field describes especially as the first sentence already clarifies this "This field is mandatory present for a SpCell upon PCell change and PSCell addition/change" |
| MediaTek | See comment | It is about the present of first Active DL/UL BWP and we understand that of course the NW should be able to configure this in intra-cell handover. We also think that it would be much better if the parameter is always present in case of *reconfigurationwithsync* to avoid any potential IOT issue between UE and NW.  The original wording here is that the field is mandatory present for a SpCell upon *reconfigurationWithSync* (PCell handover, PSCelladdition/change), which we believe it include both intra-cell and inter-cell handover. Therefore, our suggested change is to make this field mandatory upon reconfiguration with sync (as following).  -------------------------  This field is mandatory present for a SpCell upon ~~PCell change and PSCell addition/change~~ reconfiguration with *reconfigurationWithSync* and upon *RRCSetup*/*RRCResume*.  The field is mandatory present for an SCell upon addition.  For SpCell, the field is optionally present, Need N, upon reconfiguration without *reconfigurationWithSync*.  In all other cases the field is absent. |
|  |  |  |

## 2.4 Clarify UE dedicated configuration of rlf-TimersAndConstants

[R2-2007121](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007121.zip) Clarification on the UE dedicated configuration of rlf-TimersAndConstants Apple CR Rel-15 38.331 15.10.0 1788 - F NR\_newRAT-Core

[R2-2007122](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007122.zip) Clarification on the UE dedicated configuration of rlf-TimersAndConstants Apple CR Rel-16 38.331 16.1.0 1789 - A NR\_newRAT-Core

|  |  |  |
| --- | --- | --- |
| Company | Agree?  (Yes or No) | Comments |
| Qcom | No | per the spec, the PCell SIB1 has always has to includes these timers and constants, so UE applies these paramters first (as per SIB1), and then whatever is provided by the dedicatedSIB1-delivery, it will overwrite what was provided via SIB1.  From SIB1 fields descriptions: ***ue-TimersAndConstants*** *Timer and constant values to be used by the UE. The cell operating as PCell always provides this field.* |
| Ericsson (Antonino Orsino) | No | We agree with Qualcomm that the use cases pointed out by Apple will never happen. Therefore, there is no issue to correct. |
| Huawei, HiSilicon | No | Agree with Qualcomm’s understanding. |
| Nokia | No | Indeed this issue cannot happen in our view as well if the spec is implemented correctly. |
| MediaTek | No | There is no need for NW to always provide *rlf-TimersAndConstants* in handover as this filed is Need M. Even though the UE handle this filed first then get SIB1, Smart UE implementation will use the SIB1 content for RLF timer and constant. Proper correction would be to move dedicated SIB1 handling in 5.3.5.3 to occur before handling of *masterCellGroup*. |
|  |  |  |

## 2.5 Clarify SRB for fullConfig during RRC Resume

[R2-2008086](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008086.zip) Clarification on the SRB configuration for fullConfig during RRC Resume procedure (R15) ZTE corporation, Sanechips CR Rel-15 38.331 15.10.0 1985 - F NR\_newRAT-Core

[R2-2008087](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2008087.zip) Clarification on the SRB configuration for fullConfig during RRC Resume procedure (R16) ZTE corporation, Sanechips CR Rel-16 38.331 16.1.0 1986 - F NR\_newRAT-Core

|  |  |  |
| --- | --- | --- |
| Company | Agree?  (Yes or No) | Comments |
| Qcom | Yes | We’re fine with this change |
| Ericsson (Antonino Orsino) | Maybe | We do not see this as a critical change but we are okay to go with majority view. Maybe good to include it in the Rapporteur’s CR (if we go for it). |
| Huawei, HiSilicon | Yes | Fine with the change. |
| Nokia | No | Bar must be set quite high for Rel-15 corrections. Clarification makes sense to me but maybe UEs are already doing it correctly even without the clarification? If majority are okay let’s do something otherwise no real need. |
| MediaTek | Maybe | It is correct that the SRB2 is also included for RRC Resume with full configuration. However, the NOTE is just for information. It does not prevent NW to do correct configuration. We think that the CR is not essential but fine to include this in Rapporteur’s CR if majorities think it is necessary. |
|  |  |  |
|  |  |  |

# Conclusion

In the previous sections we made the following observations:

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

# References

[1]