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

Electronic Meeting, 17th – 28th August 2020

Agenda Item: 6.1.1

Source: Ericsson

Title: [AT111-e][013][NR16] RRC Misc I

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

* **[AT111-e][013][NR16] RRC Misc I (Ericsson)**

 Scope: Treat [R2-2007641](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2007641.zip), [R2-2007642](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2007097.zip), [R2-2007020](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2007119.zip), R2-2006915, [R2-2008040](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2008040.zip), [R2-2008041](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2008041.zip), R2-2008109 (proponents to drive), include other corrections to be merged with R16 RRC rapporteur CR (if any)

 Part 1: Decision whether to make corrections, identify agreeable parts.

 Deadline: Aug 20, 0900 UTC.

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

 Deadline: Aug 26, 0900 UTC.

# 2 Discussion

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 | Delegate contact |
| Nokia, Nokia Shanghai Bell | Tero Henttonen (tero.henttonen@nokia.com) |
| MediaTek | Nathan Tenny (nathan.tenny@mediatek.com) |
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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).

### 2.1.1 ASN.1 Correction to maintain backwards compatibility

[R2-2007641](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2007641.zip) ASN.1 corrections to maintain backwards compatibility Ericsson, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon CR Rel-16 38.331 16.1.0 1869 - F TEI16

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| Company | Agree?(Yes or No) | Comments |
| Nokia, Nokia Shanghai Bell | Proponent | As the CR states, these were not noticed during CR implementation but break backward-compatibility with Rel-15 specifications. That’s why we think these are absolutely necessary and unfortunately there is no way to properly fix these except with NBC changes. |
| MediaTek | Yes | We agree these are clear bugfixes in the ASN.1. |
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### 2.1.2 Correction to DLInformationTransferMRDC and RRCReconfigurationComplete

[R2-2008109](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2008109.zip) Correction on DLInformationTransferMRDC and RRCReconfigurationComplete Samsung CR Rel-16 38.331 16.1.0 1989 - F LTE\_NR\_DC\_CA\_enh-Core Late

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| Company | Agree?(Yes or No) | Comments |
| Nokia, Nokia Shanghai Bell | Partly | We agree with the procedural text changes, but for the inter-node message we think it would be better to retain the existing structure and just limit that only one of the messages can be sent at a time in this release. That way it’s easier to extend this case if ever needed. |
| MediaTek | Partial | <1> For the first change in 5.3.5.3, I understand the deleted text is for the case that * MCG failure occurs in (NG)EN-DC and fast recovery is triggered (while SRB3 is configured)
* The NW send E-UTRAN RRC Connection Reconfiguration within *DLInformationTransferMRDC* via SRB3. This E-UTRAN RRC Connection Reconfiguration also embed NR RRC Reconfiguration message for SCG reconfiguration.

Then it will go this clause. So it seems that we should not deleted it.<2> For the second change in 5.3.5.3, it seems correct but this is related to mobility and the WI code in the CR does not include NR\_Mob\_enh-Core. Also the change seems not related to the title. Perhaps better to move this change to other mobility CR ?<3> For the change in ASN.1 code, we think it is reasonable to have a choose structure in *DLInformationTransferMRDC*. |
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### 2.1.3 Remaining ASN.1 review issues

[R2-2007642](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2007642.zip) Remaining ASN.1 review issues Ericsson CR Rel-16 38.331 16.1.0 1870 - F NR\_eMIMO-Core, TEI16

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| Company | Agree?(Yes or No) | Comments |
| Nokia, Nokia Shanghai Bell | Partly | The intent seems fine but the language for the field description change for the PL resources is not:For the " *If this field is not configured,...* ***should be no more than 4***", it’s unclear what the text means as it’s not a requirement: Better use e.g. "*If this field is not configured,* ***network does not configure more than 4 RS resources for the pathloss estimates in PUCCH, PUSCH, or SRS configurations***". And even here it’s not clear if this is 4 for each configuration or 4 in total over all of the PUCCH/PUSCH/SRS configurations – we understood it to be 4 each, but would like to verify everyone has the same understanding. |
| MediaTek | Partly | We agree with Nokia’s comment that it’s better to have a clear “network does not configure“ statement.Our reading of the RAN1 agreement is that 4 is the *total* number, based on the wording of the decision from RAN1#99 (as quoted in R1-2001260, red highlighting added):**Agreement (RRC impact)@RAN1#99**On power control for PUSCH, PUCCH, and SRS, the total number of maximum configurable pathloss RSs, in including those supported in Rel-15, by RRC is 64* Note: Such pathloss reference signals are for configuration purpose only, and UE is still only required to track up to 4 pathloss RSs for any PUSCH, PUCCH, and SRS transmissions.
	+ “Up to 4 pathloss RSs” applies the total number of pathloss RSs for PUSCH, PUCCH, and SRS

By the way, this field name totally ignores the hyphenation rules and should be “enablePRLS-UpdateForPUSCH-SRS”. It seems like we could fix the field name while we’re fixing the description. |
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### 2.1.4 Conditional presence of *si-RequestConfigSUL*

[R2-2007020](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2007020.zip) Clarification on the presence of the field *si-RequestConfigSUL* Fujitsu CR Rel-16 38.331 16.1.0 1772 - F NR\_newRAT-Core

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| Company | Agree?(Yes or No) | Comments |
| Nokia, Nokia Shanghai Bell | Yes | Seems better to refer to the actual field names. Italicization should be added to *supplementaryUplink* and *servingCellConfigCommon*, though. |
| MediaTek | No | We think the existing description is clear enough and don’t really see the need for a change. However, if something is needed, wouldn’t it also be needed in Rel-15? |
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### 2.1.5 Extension scenarios for ToAddMod lists

[R2-2006915](file:///D%3A/Documents/3GPP/tsg_ran/WG2/TSGR2_111-e/Docs/R2-2006915.zip) Extension scenarios for ToAddMod lists MediaTek Inc. discussion Rel-16 NR\_newRAT-Core

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| Company | Agree?(Yes or No) | Comments |
| Nokia, Nokia Shanghai Bell | Yes | The explanations and discussion in this document are very good and we agree with the intent fully. We also have two additional points for consideration:* If we were to retain the critical extension for list, it is possible that the same ToReleaseList may be usable for entries configure by either ToAddModList, which can cause confusion. This has been discussed also earlier (see [R2-1811179](http://3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_103/Docs/R2-1811179.zip))
* The consequence of using NCE extensions is also that in general, ToAddMod-list entries should (typically) allow extendibility via ellipsis. While we understand this is always a case-by-case consideration, the guidelines could also incorporate suggestion on that (while also mentioning that for size-critical cases this is not always desirable and other mechanisms can be also used). This is primarily to ensure extendibility is not forgotten when creating new ToAddMod-list entries.
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| MediaTek | Proponent | On the comments from Nokia:* The confusing use of the ToRelease list seems difficult to avoid without artificial restrictions (e.g. always defining a new ToRelease list even if not functionally needed). We tend to think this could be clarified in field descriptions in the (hopefully rare) case that the critical extension mechanism is used.
* The point on extensible ToAddModList entries seems sound and a description could be added to section A.4.3.x in the TP.

Some additional comments were received offline, including that the proposed nomenclature is not aligned with what we have used in LTE (where the „Ext“ suffix is used to extend the number of entries in a list). We tend to think that it’s simplest to keep consistent practices with what we have done already in 38.331, but a different naming convention could be discussed (and then we would need to make a pass through the existing cases to adjust names, remembering that name changes are backward compatible).The use of the word „deprecate“ was also questioned as being possibly too strong, and we would be willing to soften it to „discourage“ if companies prefer this.Extensions in multiple releases (e.g. extending the list size in one release and adding fields in a later release) seem like they will always be challenging to maintain cleanly. However, we haven’t found a good way to describe this case, and it is difficult to prepare for in individual cases, since by definition we don’t know when it will happen. |
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# Conclusion

In the previous sections we made the following observations:

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

# References

[1]