3GPP TSG-RAN WG2 #109e Tdoc R2-200xxxx

Elbonia, 24 Feb – 6 Mar 2020

Agenda Item: 6.0.1

Source: Ericsson

Title: [AT109e][065][R16] R16 NR RRC coordination (Ericsson)
Email discussion report

Document for: Discussion

# 1 Introduction

This document is the report of the following email discussion:

* [AT109e][065][R16] R16 NR RRC coordination (Ericsson)

 Scope: Cross WI RRC coordination, Address issues found at RRC Merge. Identify which CRs/WIs that are problematic.

 Intended outcome: Identification of and Resolution to RRC issues

 Deadline: Follows the deadlines of the respective CRs.

# 2 Discussion

## 2.1 General

In R2-2001085, “[108#28][R16 RRC] RRC Merge – 38.331 Email discussion report”, the Rapporteur listed a set of identified issues (CR merge clashes etc) with comments and recommendations, and some already resolved in the CR Merge file.

On some of those issues, the Rapporteur considered further RAN2 action was needed at this meeting. These are listed in the following sections.

Main ambition with this email discussion is to ease the implementation effort and avoid problems in the real CR implementation to create the Rel-16 38331.

The CR Merge file referred to in this email discussion is stored in the email discussion folder. The only difference, as compared to the R2-2001086, is that “NR MDT” related text has been moved into its intended position in section 5.3.5.8.3.

## 2.2 MDT/SON and other Rel-16 WIs/CRs

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| 1 | General | Consider whether MDT should cover Rel-16 features (e.g. DAPS, 2step RA, Fast MCG link Recovery, NRU) | Yes |

In this section, companies are asked to analyse whether there are any (additional) interactions between MDT/SON and other Rel-16 WI/CRs that need to be considered. One example is 2step RA. Should this be logged in RA Report or not?

To assist in this analysis, the following sub-sections in 5.3 contain MDT/SON actions.

5.3.3.4 Reception of the RRCSetup by the UE

5.3.3.7 T300 expiry

5.3.5.9 Other configuration

5.3.7.4 Actions related to transmission of RRCReestablishmentRequest message

5.3.7.5 Reception of the RRCReestablishment by the UE

5.3.10.3 Detection of radio link failure

5.3.13.4 Reception of the RRCResume by the UE

5.3.13.5 T319 expiry or Integrity check failure from lower layers while T319 is running

Companies are asked to provide their comments in the following table (more tables can be added, if needed).

In case there is no expected interaction for a particular WI/CR, just leave the cell empty.

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| WI/CR | MDT and SON impact |
|  | Perspecta Labs | Company 2 | Company 3 | Company 4 |
| [IAB] |  |  |  |  |
| [IIOT] |  |  |  |  |
|  [DCCA] |  |  |  |  |
|  [NR Mob] |  |  |  |  |
| [NR eMIMO] |  |  |  |  |
| [PRN] |  |  |  |  |
| [NR-U] |  |  |  |  |
| [Power Saving] |  |  |  |  |
| [2-step RA] |  |  |  |  |
| [NR/Pos] |  |  |  |  |
| [NR/MDT] |  |  |  |  |
| [V2X] |  |  |  |  |
| [URLLC] |  |  |  |  |
| [2nd SMTC] |  |  |  |  |
| [SRVCC] |  |  |  |  |
| [UE Cap segm] |  |  |  |  |
| [RRC DL segm] |  |  |  |  |
| [CLI and RIM] |  |  |  |  |
| [On-demand SIBs] |  |  |  |  |
| [PRACHPrio\_MPS\_MCS] | Please refer to revised R2-2002102 rather than the earlier R2-1915006 in the RRC-Merge CR cover page. There is no change in proposed normative text between the two CRs. |  |  |  |

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| WI/CR | MDT and SON impact |
|  | Company 5 | Company 6 | Company 7 | Company 8 |
| [IAB] |  |  |  |  |
| [IIOT] |  |  |  |  |
|  [DCCA] |  |  |  |  |
|  [NR Mob] |  |  |  |  |
| [NR eMIMO] |  |  |  |  |
| [PRN] |  |  |  |  |
| [NR-U] |  |  |  |  |
| [Power Saving] |  |  |  |  |
| [2-step RA] |  |  |  |  |
| [NR/Pos] |  |  |  |  |
| [NR/MDT] |  |  |  |  |
| [V2X] |  |  |  |  |
| [URLLC] |  |  |  |  |
| [2nd SMTC] |  |  |  |  |
| [SRVCC] |  |  |  |  |
| [UE Cap segm] |  |  |  |  |
| [RRC DL segm] |  |  |  |  |
| [CLI and RIM] |  |  |  |  |
| [On-demand SIBs] |  |  |  |  |
| [PRACHPrio\_MPS\_MCS] |  |  |  |  |

## 2.2 5.3.5.8.3 T304 expiry (Reconfiguration with sync Failure)

The section is impacted by the following CRs/WIs: NR Mob, DCCA, NR MDT

Companies are asked to review the section the CR merge file (provided in the email discussion folder) and provide their comments.

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| Company  | Comments |
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## 2.3 5.3.10.3 Detection of radio link failure

The section is impacted by the following CRs/WIs: NR-Mob, NR-U, IAB, NR MDT, DCCA

Companies are asked to review the section the CR merge file (provided in the email discussion folder) and provide their comments.

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| Company  | Comments |
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## 2.4 IEs impacted by several WI/CRs

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| 15 | - PDCCH-Config– PDSCH-Config– PhysicalCellGroupConfigMore IEs... | New fields added by several CRs. Should consider to group related fields, and configuration constraints. What configuration constraints are needed to express (lack of) feature combinations?  | Yes  |

In the CR Merge file, a first attempt is made, and we will also have detailed ASN.1 review later.

Companies are asked to provide specific comments on IEs, identified when checking the CR Merge file.

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| IE | Company  | Comments |
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## 2.5 Other comments on the “CR merge” file

Companies can provide other comments on merging aspects, identified when checking the “CR Merge” file.

Additional comments valuable for the merge of agreed CRs to produce the real Rel-16 specification.

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| Company  | Comments |
| Perspecta Labs | Typo correction in ``The IE *RACH-ConfigCommenTwoStepRA“ to* ``The IE *RACH-ConfigCommonTwoStepRA“* |
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# 3 Summary and conclusions

Tbd.

# 4 References

R2-2001085 [108#28][R16 RRC] RRC Merge – 38331 - Email discussion report Ericsson

R2-2001086 Rel-16 RRC 38331 CR Merge Ericsson