3GPP TSG-RAN WG1 Meeting #108-e Draft R1-2202533

e-Meeting, 21st February – 3rd March 2022

Agenda Item: 8.6

Title: FL summary on RAN1 RRC parameter list for Rel-17 NR RedCap

Source: Moderator (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This feature lead (FL) summary (FLS) concerns the following email discussion for the Rel-17 work item (WI) for support of reduced capability (RedCap) NR devices [1].

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| [108-e-R17-RRC-RedCap] Email discussion on Rel-17 RRC parameters for RedCap – Johan (Ericsson)   * 1st check point for first LS in [108-e-R17-RRC]: February 24 * Final check point for second LS in [108-e-R17-RRC] if necessary: March 3 |

The FLS for the RAN1#107-e discussion on the RedCap RRC parameter list can be found in [2] and the resulting draft RedCap RRC parameter list is available in [3]. The FLS for the following discussion on the overall RRC parameter list is in [4] and the resulting RRC parameter list in [5]. For recommendations on RRC parameter list preparation, see [6]. Earlier RAN1 agreements for RedCap are summarized in [7].

The issues that are in the focus of this round of the discussion are tagged FL1.

Follow the naming convention in this example:

* *RedCapParamFLS-v000.docx*
* *RedCapParamFLS-v001-CompanyA.docx*
* *RedCapParamFLS-v002-CompanyA-CompanyB.docx*
* *RedCapParamFLS-v003-CompanyB-CompanyC.docx*

If needed, you may “lock” a spreadsheet file for 30 minutes by creating a checkout file, as in this example:

* Assume CompanyC wants to update *RedCapParamFLS-v002-CompanyA-CompanyB.docx*.
* CompanyC uploads an empty file named *RedCapParamFLS-v003-CompanyB-CompanyC.checkout*
* CompanyC checks that no one else has created a checkout file simultaneously, and if there is a collision, CompanyC tries to coordinate with the company who made the other checkout (see, e.g., contact list below).
* CompanyC then has 30 minutes to upload *RedCapParamFLS-v003-CompanyB-CompanyC.docx*
* If no update is uploaded in 30 minutes, other companies can ignore the checkout file.
* Note that the file timestamps on the server are in UTC time.

In file names, please use the hyphen character (not the underline character) and include ‘v’ in front of the version number, as in the examples above and in line with the general recommendation (see slide 10 in [R1-2200852](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_108-e/Docs/R1-2200852.zip)), otherwise the sorting of the files will be messed up (which can only be fixed by the RAN1 secretary).

To avoid excessive email load on the RAN1 email reflector, please note that there is NO need to send an info email to the reflector just to inform that you have uploaded a new version of this document. Companies are invited to enter the contact info in the table below.

**FL1 Question 1-1a: Please consider entering contact info below for the points of contact for this email discussion.**

|  |  |  |
| --- | --- | --- |
| **Company** | **Point of contact** | **Email address** |
| Intel | Debdeep Chatterjee | debdeep.chatterjee@intel.com |
| CATT | Yongqiang FEI | feiyongqiang@catt.cn |
| Spreadtrum | Huayu Zhou | huayu.zhou@unisoc.com |
| FUTUREWEI | Vip Desai | vipul.desai@futurewei.com |
| vivo | Xueming Pan | panxueming@vivo.com |
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# 2 Initial round

**FL1 Question 2-1a: Companies are invited to comment on parameters in** [***RedCapParamList-v000***](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Inbox/drafts/8.6/ParamList/RedCapParamList-v000.xlsx)**.**

|  |  |
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| **Company** | **Comments** |
| Intel | We are wondering if the details of the following configurations can be discussed here or as part of AI 8.6.1.1:   * Details of NCD-SSB following the feedback from RAN2/RAN4. * Details of configuration of CORESET in separate initial DL BWP. |
| CATT | For [RedCap-specific initial DL BWP configuration], it may be updated based on the outcome of the AI 8.6.1.1, for the case when legacy initial DL BWP is larger than the maximum RedCap BW, then whether “separate initial DL BWP must be configured“ or “separate initial DL BWP may or may not be configured, if not, continue reusing CORESET#0“. |
| Spreadtrum | The descriptions of the separat initial DL BWP may be updated. |
| FUTUREWEI | a. The description of [RedCap-specific initial DL BWP configuration] may need to be updated to reflect agreements in 8.6.1.1 (e.g. agreement of some variation of 2-1)  b. The description of [Common PUCCH configuration for RedCap-specific initial UL BWP] and values (which are FFS) may need to be updated to reflect agreements in 8.6.1.1 |
| vivo | We have similar question as Intel, how to capture the RRC parameters relatd to NCD-SSB configurations, e.g. periodicity, power, PositionsInBurst, and potentially time offset, etc, should we wait for RAN2 or should we make them complete as much as possible in AI 8.6.1.1 so that we do not miss the deadline for introducing new RRC parameters.  Regarding initial DL BWP configuration, we agree with CATT/Spreadtrum/FUTUREWEI that the decription may need to be updated based on the outcome of ongoing discussion (i.e. whether the seperate initial DL BWP shall be always configured) |

# References

1. [RP-211574](https://www.3gpp.org/ftp/TSG_RAN/TSG_RAN/TSGR_92e/Docs/RP-211574.zip), “Revised WID on support of reduced capability NR devices”, Ericsson

1. [R1-2112504](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_107-e/Docs/R1-2112504.zip), “FL summary on RAN1 RRC parameter list for Rel-17 NR RedCap”, Moderator (Ericsson)

1. [R1-2112505](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_107-e/Docs/R1-2112505.zip), “Draft RAN1 RRC parameter list for Rel-17 NR RedCap”, Moderator (Ericsson)

1. [R1-2112978](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_107-e/Docs/R1-2112978.zip), “Summary of Email discussion on Rel-17 RRC parameters for LS to RAN2”, Moderator (Ericsson)

1. [R1-2112979](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_107-e/Docs/R1-2112979.zip), “Collection of higher layers parameter list for Rel-17 LTE and NR”, Moderator (Ericsson)

1. [R1-2111193](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_107-e/Docs/R1-2111193.zip), “Recommendations for RAN1 RRC Parameter Preparation”, Moderator (Ericsson)

1. [R1-2112506](https://www.3gpp.org/ftp/TSG_RAN/WG1_RL1/TSGR1_107-e/Docs/R1-2112506.zip), “RAN1 agreements for Rel-17 NR RedCap”, Rapporteur (Ericsson)