3GPP TSG-RAN WG1 Meeting #106-e R1-21xxxxx

e-Meeting, 16th – 27th August 2021

**Agenda Item: 8.6**

**Title: FL summary on RAN1 RRC parameter list for RedCap**

**Source: Moderator (Ericsson)**

**Document for: Discussion**

# 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]. RAN1 agreements for this WI are summarized in [2].

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| As announced during RAN1#106-e, there will be a number of email threads on Rel-17 RRC parameters. For each Rel-17 work item, the work item rapporteur will kick off the email thread. The email discussions on RRC parameters will start from September 1 until September 10 (of course excluding the weekend). The purpose of these email discussions is to initiate our preparations to send the first LS to RAN2 on Rel-17 RRC parameters in October (e.g. tabulate agreed RRC parameters so far and identify ones that RAN1 should discuss whether or not to define).Please note that RAN1 will NOT be making any decision with regards to the Rel-17 RRC parameters during the email discussions. Intention is to have the work item rapporteurs provide their initial assessment and collect company views if there are any. I am hoping that this discussion will help companies better prepare for RAN1#106bis-e. For each email thread, the rapporteur is to provide a tdoc collecting company views along with a draft list of RRC parameter at the end of the email discussion.The email threads and moderators are as follows:* […]
* [Post-106-e-Rel17-RRC-06] REDCAP – to be moderated by Johan (Ericsson)
* […]
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In this round of the discussion, companies are invited to comment on [RedCapParamList-v000.xlsx](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Inbox/drafts/8.6/ParamList/RedCapParamList-v000.xlsx). Please provide your comments in this Word document, not in the Excel file.

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 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 [R1-2106403](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Docs/R1-2106403.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 into the Annex.

# Discussion

**[FL1] Question: Please provide any comments on the draft RRC parameter list** [RedCapParamList-v000.xlsx](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Inbox/drafts/8.6/ParamList/RedCapParamList-v000.xlsx)**.**

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| **Company** | **Comments** |
| Huawei, HiSilicon | 1. The meaning of square bracket for ‘Parameter name in the text’ may need to be clarified, i.e. whether it is because the name is up to RAN2 such that we are not sure about those, or it is because we have not confirmed it even in RAN1 (sometimes as working assumption, e.g. the PUCCH hopping, thus preferrably not needed in the spreadsheet or needs to be calrified when sent to RAN2).
2. We suggest to focus on those requiring new RRC parameters and obvious changes to an existing RRC parameters (mainly on their candidate values, or possibly applicability with new restrictions, if agreed) for now. Given many of the optional UE features for non-RedCap UEs would remain applicable for RedCap UEs, accordingly most of the existing RRC configuraions/parameters would remain applicable as well.
	1. One example is the ’*cqi-Table*’, which in our veiw does not need to be specifically provided and the existing parameter may be reused. Although the agreements indicate that ” *... “CQI table 2” (Table 5.2.2.1-3 in TS 38.214) are supported by a RedCap UE indicating support of 256QAM for PDSCH*”, it is natually the case as existing specification.
	2. Another example is DCI format 0\_0 and 0\_1 is agreed as mandatory, and there is exisiting RRC parameter that can be reused. We may not need to specifically mention this in the spreadsheet, as FL currently does.
	3. How to handle those parameters than can be reused from existing parameters may need further discussion in a comprehensive manner.
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# Annex: Companies’ point of contact

**[FL1] Question: Please consider entering contact info below for the points of contact for this email discussion.**

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| **Company** | **Point of contact** | **Email address** |
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# References

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| [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 |
| [2] | [R1-2108271](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Docs/R1-2108271.zip) | RAN1 agreements for Rel-17 NR RedCap | Rapporteur (Ericsson) |