3GPP TSG-RAN WG1 Meeting #106bis-e Tdoc R1- 21XXXXX

E-meeting, October 11th – 19th, 2021

Agenda Item: 8

Source: Moderator (Ericsson)

Title: Summary of Email discussion on Rel-17 RRC parameters for LS to RAN2

Document for: Discussion, Decision

# 1 Introduction

This document summarizes the discussions in input contributions and during RAN1#106bis-e under the following email thread assigned by RAN1 Chair:

[106bis-e-R17-RRC] Email discussion on Rel-17 RRC parameters for LS to RAN2 – Sorour (Ericsson)

* Email discussion to start on October 18
* LS to RAN2 to be finalized and endorsed on October 22

There have been ongoing email discussions since Post RAN1#106-e meeting across Rel-17 WIs in order to provide the preliminary RRC parameter list for supported PHY functionalities by RAN1. The discussions on RRC parameters in respecitve Rel-17 WIs are resumed in RAN1#106bis-e with a final chck point at October 19th. Moreover, aiming for a consistent and efficient approach for preparing RRC parameters in RAN1, [1] was prepared that suggests a set of recommendations and guidelines to achieve this goal.

Within this email discussion, i.e. [106bis-e-R17-RRC], the RRC parameter lists across different WIs are merged into an Excelsheet for final review by the group and approval by Chair to be sent via an LS to RAN2/RAN3 by October 22nd.

**Moreover, as described in [1], it is benficail to consider only stable (not necessarily complete) RRC parameters in the LS to RAN2. The remaining RRC parameters can be discussed further in RAN1 in next meetings and be included in the earleist LS to RAN2, when identified as stable**.

Please note that due to the ongoing RRC parameter email discussions per WI, the coordination between RRC email discussions per WI and this email discussion is considered as the following:

* The Moderator of each WI RRC email discussion [106bis-e-R17-RRC-WI], provides the “WI input RRC list”. These lists are collected in an Excelsheet by the Moderator of [106bis-e-R17-RRC].
* The collective Excelsheet is reviewed under [106bis-e-R17-RRC] email discussion using section 2.1 below.
* If the collective Excelsheet is subject to update based on any input from a WI RRC email discussion Moderator, the update of the Excelsheet would be announced in this email discussion.
  + Each WI input RRC list includes a column at the end for “Status” to identify most impotantly the “stable” rows in the list. Please note that this column is for RAN1 information only and will not be included in the LS to RAN2.
  + The first input WI RRC list is planned based on the outcome at 1st check point on Oct 14 of each WI RRC email discussion [106bis-e-R17-RRC-WI].
  + The second WI RRC input list is planned based on the outcome at final check point on Oct 19th of each WI email discussion [106bis-e-R17-RRC-WI], if any.
    - Please note that the input WI RRC list from a WI Moderator, may be subject to more updates than planned above. If that results in the update of collective Excelsheet during the lifetime of this email discussion, the update would be announced.

Comapnies are encouraged to consider the discussion in the following section and provide their input, if any.

# 2 Discussion

## 2.1 RRC parameter lists of Rel-17 Ws

The sub-sections below are organized for collection of comments on RRC parameters per WI. Please provide you comments, if any, for the input RRC list of a WI in the corresponding sub-section using the **latest version of Excelsheet** available at folder [Collection of RRC parameters](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106b-e/Inbox/drafts/8/%5B106bis-e-R17-RRC%5D/Collection%20of%20RRC%20parameters).

### 2.1.1 feNR-MIMO [106bis-e-R17-RRC-MIMO]

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### 2.1.2 60GHz [106bis-e-R17-RRC-60GHz]

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### 2.1.3 IIoT&URLLC [106bis-e-R17-RRC-IIoT-URLLC]

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### 2.1.4 NR-NTN [106bis-e-R17-RRC-NR-NTN]

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### 2.1.5 Positioning [106bis-e-R17-RRC-NR-ePos]

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### 2.1.6 RedCap [106bis-e-R17-RRC-REDCAP]

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### 2.1.7 Power saving [106bis-e-R17-RRC-PowSav]

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### 2.1.8 Coverage [106bis-e-R17-RRC-CovEnh]

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### 2.1.9 NB-IoT&eMTC [106bis-e-R17-RRC-NB-IoT-eMTC]

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### 2.1.10 eIAB [106bis-e-R17-RRC-eIAB]

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### 2.1.11 Sidelink [106bis-e-R17-RRC-Sidelink]

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### 2.1.12 MBS [106bis-e-R17-RRC-MBS]

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### 2.1.13 DSS [106bis-e-R17-RRC-DSS]

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### 2.1.14 MR-DCs Scell Act. [106bis-e-R17-RRC-NR-DC]

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### 2.1.15 IoT NTN [106bis-e-R17-RRC-IoT-NTN]

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### 2.1.16 5G-Broadcast [106bis-e-R17-RRC-LTE-Bcast]

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## 2.2 Draft LS to RAN2 on RRC parameters

A draft for LS to RAN2 is provided and available at folder [Draft LS](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106b-e/Inbox/drafts/8/%5B106bis-e-R17-RRC%5D/Draft%20LS). Please provide your comments, if any, on the **latest version of draft LS**. Your review, specially from 20th of Oct. ia very appreciated.

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## 2.3 Improve RRC parameters preparation activity

The document in [1] was an attempt to address our challenges in RAN1 for the task of RRC parameters preparation based on our previous experiences. However, it was not feasible to seek input from all delegates in RAN1 on identify what the challenges are and how they can be handled.

Please consider this section to share your questions, comments and suggestions that could help to further improve our WoW within RAN1, as well as inter-action with RAN2 with respect to RRC parameter preparation. The more we know, the more we can improve. Thank You!

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# 3 Conclusion

TBD

# 4 References

1. R1-2110415, Recommendations for RAN1 RRC Parameter Preparation; Moderator (Ericsson)