3GPP TSG-RAN WG1 Meeting #112bis-e

Source: Ericsson

Title: WoW for Rel-18 RRC parameter coordination

Document for: Information

# 1 Description of WoW

The following WoW is similar to the approach used in Rel-17 for coordination to prepare the RRC parameter list. The examples below are based on RAN1#112bis-e. The same approach is going to be used in RAN1 meetings in Rel-18.

The description below is structured as the following:

* First, the structure of the folders are explained.
* Then, WoW procedures are explained in three steps.
* Finally, the instructions on how to update the list needed for each step are explained at the end.

## 1.1 Folders Structure:

The following folders are created under draft folder created in RAN1#112bis-e:

|  |
| --- |
| * **9.18 (Other)**   + **[112b-e-R18-RRC]**      - **Information and Instructions**     - **Collection of RRC parameters**     - **Draft LS**     - **Final output**     - **ForRapporteursUseOnly**       * **[112b-e-R18-RRC-NCR]**       * **[112b-e-R18-RRC-eDSS]**       * **[112b-e-R18-RRC-MCE]**       * **[112b-e-R18-RRC-BWPwoRestriction]**       * **[112b-e-R18-RRC-TEI]** |

The following folders are updated only by Over-all Rel-18 RRC moderator (Sorour).

* **Information and Instructions**
  + This folder includes this document. As well as information about WI and Rapporteurs, and the template for RRC list.
* **Collection of RRC parameters**
  + This folder is used to update and share the updated overall RRC parameter list.
* **Draft LS**
  + This folder is used for sharing and reviewing the draft LS.
* **Final output**
  + This folder is used to share the submitted tdocs as the outcome of the work for the meeting.

The following folder is updated only by WI Rapporteur/Moderator for updating the RRC parameter list. A folder is dedicated to each WI Rapporteur/Moderator.

* **ForRapporteursUseOnly**
  + **[112b-e-R18-RRC-NCR]**
  + **[112b-e-R18-RRC-eDSS]**
  + **[112b-e-R18-RRC-MCE]**
  + **[112b-e-R18-RRC-BWPwoRestriction]**
  + **[112b-e-R18-RRC-TEI]**
  + **….**

The Main folder will be used for delegates’ review of the Consolidated higher layer parameters.

* **[112b-e-R18-RRC]**

## 1.2 Procedures for updating the RRC list:

The procedures include three steps as explained below, using the instructions for marking stable/unstable and using color-coding in the next section.

### Initial step (Initial RRC list to kick-out activity):

* An Excel sheet with v000 in Collection of RRC parameters is provided by Sorour.
* For example: draft\_Rel-18\_higher\_layer\_parameters\_list\_v000.xls
* Note: In case of revision, Sorour announces the latest version to be used.
* The WI Rapporteur uses V000 (or later revision if announced) and applies the updates in the RRC parameter list, if any.
* The WI Rapporteur uses the updated RRC parameter list for submission to the meeting.
* The WI Rapporteur uploads the submitted RRC parameter list in the respective WI RRC folder as V000.
* For convenience, please include the corresponding label for the WI in Excel sheet.
  + For example: higher\_layer\_parameters\_NCR\_v000.xls in folder [112b-e-R18-RRC-NCR].
* Note: Please see the instructions in next section for how to mark stable/unstable and use color-coding.

### Intermediate step (Update and review process of RRC list):

* Review per WI phase (timelines are set by RAN1 Chair):
  + The WI Rapporteur has full freedom to use the dedicated WI folder for any update of the corresponding RRC parameter list based on the discussion during the meeting.
* Over-all review phase (timelines are set by RAN1 Chair):
  + The WI Rapporteur informs Sorour the files that Sorour can use to update the existing file in Collection of RRC parameters to the next version.
    - For example: higher\_layer\_parameters\_NCR\_v015.xls
  + Sorour updates the overall RRC parameter list with the updates received from the WI Rapporteurs and kicks off the over-all RRC list review.
    - For example: draft\_higher\_layer\_parameters\_v001.xls
* All delegates can review and further updates are applied to the list, if needed using [112b-e-R18-RRC] folder.
  + The WI Rapporteur can provide additional updates if needed during this step, for example based on the comments received during the review process.
    - The WI Rapporteur can use the dedicated folder, similarly to Intermediate Step, and inform Sorour on the needed updates. The best way is to create a new version that can REPLACE the old version.
    - Note: It is crucial that Sorour and WI Rapporteurs coordinate tightly to remain in sync and avoid any inconsistently in the list.
  + Note: Sorour consults WI Rapporteur to apply technical changes.
* Note: Please see the instructions in next section for how to mark stable/unstable and use color-coding.

### Final step (LS and backlog RRC list):

* When the review is completed, Sorour uses the latest version in Collection of RRC parameters.
  + For example: draft\_higher\_layer\_parameters\_v005.xls
* Sorour provides two files of the latest RRC parameter list:
  + **Backlog-list:**
    - This list, includes the entries in ALL rows and will be submitted to RAN1 as backlog.
    - For example: Backlog-list = draft\_higher\_layer\_parameters\_v005.xls
  + **Output-list:** 
    - This list, includes only entries in rows that are STABLE and can be sent to RAN2/RAN3. If this list is endorsed by Chair, a draft LS in Draft LS folder is prepared by Sorour to be reviewed for sending the RRC list to RAN2/RAN3.
  + Note: Output-list is sub-set of Backlog-list. Output-list is RAN1 official output. Backlog-list is RAN1 backlog for continuation of work, if needed.
* **Sorour submits the following from Final Output folder:**
  + LS including Output-list (Official output to RAN2/RAN3)
  + Backlog-list (For RAN1 use only)
  + Summary of discussion (For information)
* This Backlog-list is used in the next meeting as “The Excel sheet with v000 in Collection of RRC parameters to be provided by Sorour” for the Initial Step.
* Note: Please see the instructions in next section for how to mark stable/unstable and use color-coding.

## 1.3 Instructions for updating the entries in the RRC list:

The description below is based on the approach used in Rel-17 is used for coordination and regular update of RRC parameter list:

**Important note:** Please consider the Recommendation guidelines provided in [R1-2202913](http://3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202913.zip).

It is beneficial to consider only stable (not necessarily complete) RRC parameters in the LS to RAN2/RAN3 (please see motivations in [R1-2202913](http://3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_108-e/Docs/R1-2202913.zip)). The remaining RRC parameters can be discussed further in RAN1 at the next meetings to be included in the earliest LS to RAN2/RAN3, when identified as stable.

**Hence, the following stable/unstable marking approach is used similarly to Rel-17:**

### How to mark Stable/Unstable:

* For each sheet dedicated to a WI RRC parameter list, a column at the end of the list is included for “Status”. This column is used to identify whether the content of a row in the list is stable or not by using {stable, unstable}, respectively.
  + This column is for RAN1 information only and will not be included in the Output-list for LS to RAN2/RAN3.
* The Output-list for LS to RAN2/RAN3 includes Only the rows that are indicated as “stable”.
* The Backlog-list contains all rows and columns, including Rows indicated as unstable and the Status column, for discussion in next RAN1 meeting.
  + The unstable rows will be discussed further in RAN1 at the next meetings to be included in the earliest LS to RAN2/RAN3 when stable.

**Important note:** Proper color-coding is crucial to properly indicate to RAN2/RAN3 the changes in the list as compared to previous version. The basic principle is as the following:

When an LS is sent to RAN2/RAN3 using the Output-list:

* The updates in the Output-list as compared to the previous lists sent to RAN2/RAN3 are shown with **blue**.
* The unchanged part of the Output-list as compared to the previous lists sent to RAN2/RAN3 are shown with **black**.

**Hence, the following color-coding approach is used similarly to Rel-17:**

### How to use color coding:

* **In Initial step:**
  + Sorour: draft\_higher\_layer\_parameters\_v000.xls is based on Backlog-list from previous meeting, if any. Note that Backlog-list includes Output-list, if any.
    - All rows corresponding to Output-list in the previous LS if any, are shown in **black.**
    - The remaining rows are highlighted in yellow in **a colored font** (preferably **blue**). Note that **black is NOT** used.
  + WI Rapporteur (e.g. NCR): higher\_layer\_parameters\_NCR\_v000.xls
    - All rows corresponding to Output-list in the previous LS are shown in **black.**
    - The remaining rows are highlighted in yellow in **a colored font** (preferably **blue**). Note that **black is NOT** used.
* **In Intermediate step:**
  + Any text that was in Initial Step **black** and **remains unchanged**, is shown in **black.**
  + The remaining texts are shown in **a colored font** (preferably **blue**). Note that **black is NOT** used.
* **In Final Step:**
  + In Backlog-list, rows identified as stable, use only **black** and **blue** colors without yellow highlight.
    - Any font color except **black** is changed to **blue**.
  + Then, Output-list is prepared using only stable rows of Backlog-list, with removing the status column.