**3GPP TSG-RAN5 Meeting #107 draft\_*R5-25xxxx***

**Malta, 19th - 23rd May 2025**

Agenda Item: 4.2.4

Source: Ericsson, […]

Title: 6G Spec Modernization discussion

Document for: Information

# 1 Introduction

During TSG#108 meetings, a new Study Item has been approved for ‘Modernization of Specification Format and Procedures for 6G’ and a ‘Way of Working’ agreed. The SI has the following objectives:

* Objective 1: Assessment of existing specification formats and working methods, and requirements for any improvements.
  + Advantages of current tools
  + Shortcomings, pain-points, and potential benefits
  + Requirements Identification
* Objective 2 (After TSG#109): Taking into account the outcome of objective 1, consider new formats, including but not necessarily limited to plain text format such as Markdown or LaTeX, or another format.
* Objective 3 (After TSG#109): Taking into account the outcome of objective 1, consider use of Git and ETSI FORGE database to store specifications and manage version control. Other alternatives are not precluded.

In the process of the studies, trial TSs and CRs will be created, to evaluate the considered formats and processes and their applicability to the different working groups across 3GPP.

Findings, conclusions, and recommendations will be recorded in TR 21.802.

In parallel, in various RAN groups the discussion on the future of 3GPP specification was triggered and tests are currently ongoing. RAN5 also have an ongoing offline discussion on the dedicated email thread.

To ensure the RAN5 relevant aspects are considered, RAN5 leadership team decided to form a group of RAN5 representatives to actively participate in the conference calls throughout the activity.

In this document we provide status update for the 6G spec modernization activity. We also highlight RAN5 aspects related to this activity.

# 2 6GSM way of working

### 2.1 Conference calls and timeline

To progress the work in between the TSG meetings, formal conference calls are scheduled. During the joint TSG SA/RAN/CT plenary session the progress will be shared. At the end of each plenary session latest draft version of TR 21.802 will be shared and agreed. Target completion is TSG #111 (March 2026).

**Planned conference calls (13:00-15:00 UTC)**

#0 Thu 3rd July – Information session, recorded.

#1 Wed 6th Aug

#2 Wed 3rd Sep

**[TSG#109]**

#3 TBC

#4 TBC

**[TSG#110] (TR v1.0.0)**

#5 TBC

#6 TBC

**[TSG#111] (TR v2.0.0)**

Plus additional training/tutorial calls as needed.

Each conference call is accessible via the 3GU.

### 2.2 TR 21.802

During the conference calls pCRs to TR 21.802 will be discussed and eventually endorsed. All the endorsed pCRs will be incorporated to next editorial version (0.0.z) increment of TR 21.802.

Initial content of the TR 21.802 is presented in the annex A.1. The skeleton will be formally approved during CC#1.

### 2.3 Status of TR 21.802 after CC#1

For all the agenda items there was a limit of 1 document per company. The RAN5 aspects were introduced to the discussion per company CRs independently.

TBD

# 3 RAN5 requirements

During the offline email discussions RAN5 have identified the following RAN5 requirements.

* Machine readable format (example PICS)
* Tables in JSON format (Test configuration tables)
* Some specs need attachments in form of zip files (example 38.903)
* Possibility to automate (RRM TT)
* RAN5 maintaining the newest version of the spec (most of RAN5 specs)
* RAN5 using intermediate revisions
* RAN5 is combining CR into “Jumbo” CRs
* Extractable definitions for cross spec usage and external usage (e.g. ASN.1)
* Extra-large tables can be easily maintained and cross referenced (e.g. 38.523-2)
* Extra-large tables can be easily maintained and bands/band configurations automated alignment between RAN4 and RAN5 specs (e.g. excel file in PRD21)

# 4 Conclusion

The new SI on the 6G spec modernization was approved and the two conference calls has been already held.

RAN5 aspects are collected and are being introduced to the TR 21.802 per individual company discussion papers and pCRs. So far the focus is on Objective 1. While working on Objectives 2 and 3 more synced RAN5 approach may be required, to fully cover RAN5 relevant requirements.

# A Annexes

### A.1 Initial content of TR 21.802 (skeleton)

A white and black text box

AI-generated content may be incorrect.