**3GPP TSG RAN Meeting #102 RP-23xxxx**

**Edinburgh, Scotland, December 11-15, 2023**

## Status Report to TSG

**Agenda item:** **9.4.5.7**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WI / SI Name** | Rel-18 4Rx for NR bands for FWA (Fixed Wireless Access) UEs (<2.6GHz) and handheld UEs (1GHz to 2.6GHz) | | | | |
| included in this status report | Study Item:  No | Core part:  Yes | Performance part:  Yes | | Testing part:  No |
| **Acronym** | 4Rx\_NR\_bands\_R18 | | | | |
| **Unique ID** | 981042 | | | | |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-231844 | | | | |
| **Target Completion Date**  **(indicate if changed)** | Study Item:  N/A | Core part:  03/2024 | Performance part: 03/2024 | Testing part: N/A | |
| **Overall Completion level** | Study Item:  N/A | Core part:  65% | Performance Part:  65% | Testing part: N/A | |

Note: Overall completion level percentage numbers should use one of the colors below:

* xx%: Normal progress, no RAN plenary action needed
* xx%: Progress behind schedule, may need RAN plenary intervention. If so, SR should clearly define requested action
* xx%: Progress critically behind, RAN plenary shall intervene. SR should define requested action

**Source:**

|  |  |  |
| --- | --- | --- |
| **Leading WG** | | TSG RAN WG4 |
| **Rapporteur** | **Name** | Wubin, Zhou |
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## 1 Work plan related evaluation

|  |  |
| --- | --- |
| **Do you want to modify the time budget for this WI/SI compared to what was endorsed at the last RAN meeting?** | No |

*If you answered No: Then please remove the Excel file from the zip file of this status report.*

*If you answered Yes: Then please fill out the attached Excel template to request a modification of the time budgets for your WI /SI. The Excel table has to be filled out for all affected RAN WGs and up to the target date of the WI/SI. The basis are the endorsed time budgets of the last RAN meeting. Please highlight all changes of the values.  
 One time unit (TU) corresponds to ~ 2 hours in the meeting.  
 If this status report covers a WI with Core and Performance part, then please have one line for each in the attached Excel table.  
 Note: If no Excel table is attached, then this means no time budget change.*

**Additional explanations/motivations for the time budget changes in the attached Excel table:**

## 2. Detailed progress in RAN WGs since last TSG meeting (for all involved WGs)

## 2.1 RAN4

#### 2.1.1 Agreements

**RAN4 #106 (Feb. 2023)**

Two draft CRs (R4-2301255, R4-2302447) were endorsed to introduce n5, n25/n85 to support 4Rx. The endorsed CR is implemented in the big CR R4-2301278.

**RAN4 #107 (May. 2023)**

A new FR1 band (i.e. n13) was requested by companies to support 4Rx FWA UE.

**RAN4 #108 (Aug. 2023)**

A draft CR (R4-2311924) to include band n13 to support 4Rx FWA was endorsed.

**RAN4 #108bis and #109 (Oct./Nov. 2023)**

No draft CR support 4Rx FWA was endorsed.

## 3. Detailed progress in SA/CT WGs since last TSG meeting (for all involved WGs)

N/A

## 4. References

The endorsed draft CRs and approved TPs in #106-e meeting are listed:

1. R4-2301255 draft CR to TS38.101-1: 4Rx for n5

2. R4-2302447 Draft CR for 38.101-1: 4Rx for n25 and n85

Big CRs:

R4-2301278 Big CR to reflect the completed 4Rx support for NR FR1 bands (2.6GHz) into TS 38.101-1

The endorsed draft CRs and approved TPs in #108 meeting are listed:

R4-2311924 draft CR to TS38.101-1[R18]\_4Rx FWA for n13

Big CRs:

R4-2312486 CR to reflect the completed 4Rx support for NR FR1 bands (2.6GHz) into TS 38.101-1

31.08.2020 minor adaptations for RAN #89e

20.04.2020 minor adaptations for RAN #88e

18.02.2020 minor adaptations for RAN #87e

14.11.2019 minor adaptations for RAN #86

18.08.2019 minor adaptations for RAN #85

12.05.2019 minor adaptations for RAN #84

27.02.2019 minor adaptations for RAN #83

21.11.2018 completion levels with colours added (for RAN #82)

v04.81 31.07.2018 simplification of template and addition of cross-TSG aspects (for RAN #81)

v04.80 21.05.2018 minor adaptations for RAN #80

v04.79 26.02.2018 minor adaptations for RAN #79

v04.78 18.11.2017 minor adaptations for RAN #78

v04.77 06.08.2017 minor adaptations for RAN #77

v04.76 15.05.2017 minor adaptations for RAN #76

v04.75 31.01.2017 minor adaptations for RAN #75

v04.74 28.10.2016 minor adaptations for RAN #74

v04.73 01.09.2016 adaptations for RAN #73 (time units in extra Excel table, RAN6 reporting included)

v04.72 26.05.2016 adaptations for RAN #72 (introduction of NR & GERAN TUs)

v04.71 10.02.2016 minor adaptations for RAN #71

v04.70 30.10.2015 minor adaptations for RAN #70

v04.69 12.08.2015 minor adaptations for RAN #69

v04.68 21.05.2015 minor adaptations for RAN #68

v04.67 01.02.2015 minor adaptations for RAN #67

v04.66 16.11.2014 minor adaptations for RAN #66

v04.65 16.08.2014 minor adaptations for RAN #65

v04.64 22.05.2014 minor adaptations for RAN #64

v04.63 24.01.2014 restructuring for RAN #63 to cover Core & Perf. in one doc file

v03.62 11.11.2013 section 1.2.3 adapted for RAN #62

v03 11.08.2013 section 1.2.3 added on time budget

v02 07.05.2010 history added, some spelling corrections

v01 13.11.2009 First version of the template