**3GPP TSG RAN meeting #92e RP-211404**

**Electronic Meeting, June 14-18, 2021**

## Status Report to TSG

**Agenda item:** 9.8.1.7

|  |  |
| --- | --- |
| **WI / SI Name** | Introduction\_of\_900\_MHz\_spectrum\_to\_5G\_NR\_applicable\_for\_Rail\_Mobile\_Radio\_in\_EU  |
| included in this status report | Study Item: No | Core part: Yes | Performance part: Yes | Testing part: No |
| **Acronym** | NR\_RAIL\_EU\_900 MHz |
| **Unique ID** | 911016 |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP‑210878 |
| **Target Completion Date****(indicate if changed)** | Study Item: N/A | Core part: 03/2022 | Performance part: 03/2022 | Testing part: N/A |
| **Overall Completion level** | Study Item: N/A | Core part: 5% | Performance part: 0% | 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** | RAN4 |
| **Rapporteur** | **Name** | Ingo Wendler |
| **Company** | UIC |
| **Email** | ingo dot wendler at sbb dot ch |

## 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:**

Rapporteur proposes to extend the SI until RAN#94. Progress has been slow, and several methods are still needing detailed discussions. We see by prolonging until RAN#94 (December 2021) it will give sufficient time to finish the SI.

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

 NOTE: Agreements and Open issues impacted cross-TSG aspects shall be explicitly highlighted

## 2.1 RAN1

#### 2.1.1 Agreements

#### 2.1.2 Remaining Open issues

## 2.2 RAN2

#### 2.2.1 Agreements

#### 2.2.2 Remaining Open issues

## 2.3 RAN3

#### 2.3.1 Agreements

#### 2.3.2 Remaining Open issues

## 2.4 RAN4

#### Agreements

* WID objectives update is required.
* The support of NB IoT is excluded from this WID.
* An internal TR will record all agreements in the upcoming RAN meetings.

#### 2.4.2 Remaining Open issues

* Introduction of new NR FDD operating band for RMR;
* Specify the system parameters considering technical conditions defined in ECC Decision(20)02;
* Core requirements for UE, considering reuse of the existing NR core requirements, and possible new requirements for RMR;
* Core requirements for BS, considering reuse of the existing NR core requirements, and possible new requirements for RMR;
	+ Conclusion on the RMR deployment aspects, considering co-location requirements specification,
	+ Conclusion on the requirements transposition from related ECC regulatory decision,
* Conclusion on channel raster aspects;
* Conclusion on the applicable Base Stations classes for RMR deployments;
* Conclusion on the applicability of coordination procedures or mitigation measures;
* Agreement on UE and BS conformance testing requirements.

## 2.5 RAN5

#### 2.5.1 Agreements

#### 2.5.2 Remaining Open issues

#### 2.5.3 Remaining Open issues with cross-WG dependencies

## 2.6 RAN6

#### 2.6.1 Agreements

#### 2.6.2 Remaining Open issues

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

NOTE: This section only needs to be filled in for WI/SIs where there is a corresponding relevant WI/SI in SA/CT.

## 3.1 SAx/CTs

#### 3.1.1 Agreements with cross-TSG impacts

#### 3.1.2 Remaining Open issues with cross-TSG impacts

NOTE: This section should also flag any critical dependencies that need TSG attention.

## 4. References

NOTE: This can be e.g. a list of all related Tdocs in the affected WGs since last TSG, references to LSs, produced TRs/TSs, the work/study item description or status reports of previous TSGs.

RAN4#98bis-e

[1] R4-2105387 Email discussion summary for [98bise][127] NR\_RAIL\_EU\_900MHz\_NR\_RAIL\_EU\_1900MHz , UIC, RAN4#98bis-e;

[2] R4-2107312 On RMR 900MHz band, Huawei Hi-Silicon, RAN4#98bis-e;

RAN4#99-e

[1] R4-2105387 Email discussion summary for [99e][114] NR\_RAIL\_EU\_900MHz\_NR\_RAIL\_EU\_1900MHz , UIC, RAN4#99-e

[2] R4-2111051 Discussion on general aspects of the RMR 900 WI, Huawei Hi-Silicon, RAN4#99-e

[3] R4-2110956 Introduction of the RMR 900, Huawei Hi-Silicon, RAN4#99-e;

[4] R4-2111054 Discussion on channel raster aspects for RMR 900, Huawei Hi-Silicon, RAN4#99-e;