**3GPP TSG RAN meeting #98-e RP-223376**

**Electronic Meeting, December 12-16, 2022**

## Status Report to TSG

**Agenda item:** 9.2.2

|  |  |
| --- | --- |
| **WI / SI Name** | Study on UE support of regionally-defined subsets of an NR band |
| included in this status report | Study Item: Yes | Core part: No | Performance part:No | Testing part:No |
| **Acronym** | FS\_subset\_band\_support |
| **Unique ID** | 960092 |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-221872 |
| **Target Completion Date****(indicate if changed)** | Study Item: ~~12/2023~~03/2023 | Core part: mm/yyyy | Performance part: mm/yyyy | Testing part: mm/yyyy |
| **Overall Completion level** | Study Item: 80 % | Core part: xx% | Performance Part: xx% | Testing part: xx% |

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 |
| **Rapporteur** | **Name** | Gene Fong |
| **Company** | Qualcomm Incorporated |
| **Email** | gfong@qti.qualcomm.com |

## 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)

 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

#### 2.4.1 Agreements

#### 2.4.2 Remaining Open issues

## 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

## 2.6 RAN

#### 2.6.1 Agreements

**RAN #97e**

Skeleton TR [4] agreed, TR 38.893 v0.0.1

TP on root cause [9] was agreed

TP on other issues related to UE certification and roaming [10] was agreed

Solutions using new bands or new band numbers as well as solutions not using new bands or band numbers were discussed, but agreement not yet reached.

**RAN #98e**

Some discussion still on roaming and legacy UE’s. Extensive discussion on potential solutions including new bands, new band numbers, new signaling implicit or explicit, UE implementation based solutions.

The TP’s were agreed on potential solutions [12], [17], [19].

#### 2.6.2 Remaining Open issues

While a list of potential solutions has been agreed, companies have not yet discussed and agreed upon a recommendation and downselection of these potential solutions. One quarter extension of the study item is needed to complete.

## 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.

**From RAN #97-e**

1. RP-222570, “Email discussion summary for [97e-10-R18-Regional-Subsets-Bands],” Moderator (Qualcomm Incorporated)
2. RP-222177, “Text proposal for Study on UE support of regionally-defined subsets of an NR band,” Apple
3. RP-222210, “TP for TR38.xxx Band Subsets; Root cause and New band number,” T-Mobile USA Inc.
4. RP-222221, “TR 38.893 V0.0.1: Study on UE support of regionally-defined subsets of an NR band,” Qualcomm Incorporated
5. RP-222223, “TP for TR 38.893: Views on UE support of regionally-defined subsets of an NR band,” Qualcomm Incorporated
6. RP-222365, “On UE support of regionally-defined bands,” Nokia, Nokia Shanghai Bell
7. RP-222368, “Generic solution for n77-like issues,” Ericsson
8. RP-222510, “Discussion on UE support of regionally-defined subsets of an NR band,” Huawei, HiSilicon
9. RP-222679, “TP for TR38.398 Band Subsets; Root causes and new band number,” T-Mobile USA Inc.
10. RP-222680, “TP for 38.893: Other issues regarding regulatory certification,” Qualcomm Incorporated

**From RAN #98-e**

1. RP-22xxxx, “Email discussion summary for [98e-10-R18-Regional-Subsets-Bands],” Moderator (Qualcomm Incorporated)
2. RP-22xxxx, “Text proposal for Study on UE support of regionally-defined subsets of an NR band,” Apple, AT&T
3. RP-223250, “Solutions for UE support of regionally-defined bands,” Nokia, Nokia Shanghai Bell
4. RP-223254, “Generic solution for n77-like issues,” Ericsson
5. RP-223339, “Review of solutions for the study item on UE support of regionally defined subsets of an NR band,” AT&T
6. RP-223357, “Discussion on UE support of regionally-defined subsets of an NR band,” Huawei, HiSilicon
7. RP-22xxxx, “TP for TR 38.893 to introduce the potential solutions,” Huawei, HiSilicon
8. RP-223377, “TP for TR 38.893: Solutions and recommendation,” Qualcomm Incorporated
9. RP-22xxxx, “TP for TR38.893 New bands and new band numbers for regional sub-bands,” Ericsson, T-Mobile USA, AT&T, Qualcomm, Nokia, Huawei
10. RP-223375, “TR 38.893 v0.2.0: Study on UE support of regionally-defined subsets of an NR band,” Qualcomm Incorporated

 01.08.2022 minor adaptations for RAN #97e

 21.05.2022 minor adaptations for RAN #96

 10.01.2022 minor adaptations for RAN #95e

 04.10.2021 minor adaptations for RAN #94e

 08.08.2021 minor adaptations for RAN #93e

 17.05.2021 minor adaptations for RAN #92e

 28.01.2021 minor adaptations for RAN #91e

 09.11.2020 minor adaptations for RAN #90e

 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