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

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

## Status Report to TSG

**Agenda item:** 10.3.4

|  |  |
| --- | --- |
| **WI Name** | High Power UE (Power Class 2) for LTE FDD Band 14 |
| included in this status report | Study Item: No | Core part: Yes | Performance part: Yes | Testing part: No |
| **Acronym** | High Power UE (Power Class 2) for LTE FDD Band 14 |
| **Unique ID** | 1010054 |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-232676 |
| **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: 50% | Performance Part: 80% | 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** | RAN WG4 |
| **Rapporteur** | **Name** | Borsato, Ron |
| **Company** | AT&T |
| **Email** | ronald.borsato@att.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?** | Yes |

*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#108-bis:

- Approved the TR Skeleton in [1].

- Agreed on the following specification handling for Band 14 PC2 REFSENS requirements based on [2].

- Specify the B14 PC2 REFSENS requirement in TS 36.101 as an absolute power level.

- Consider the B14 PC2 REFSENS values in brackets as examples only. Wait until conclusion on RSD evaluation.

RAN4#109:

- Approved TP for TR 36.770 Scope and Background in [3].

- Approved TP for TR 36.770 SAR Scheme in [4].

- UE-implementation based method within the framework of LTE (P‑MPR) will be used to make sure SAR regulation is not violated.

- Endorsed Draft CR on the release independency of band 14 PC2 UE in [5].

- Band 14 PC2 UE is release independent from Release 10. TS 36.307 CR will be provided at RAN4#110 based on endorsed Draft CR.

- Approved WF on HPUE\_LTE\_FDD\_B14 in [6].

- Approved TR 36.770 v.0.1.0 in [7] as an outcome of the approved TR Skeleton at RAN4#108-bis and the agreed TPs at RAN4#109.

#### 2.1.2 Remaining Open Issues

Core Part:

1) Specify the band specific RF requirements for power class 2 LTE Band 14 including

a) UE maximum output power tolerance

b) A-MPR requirements if needed

c) PC2 sensitivity degradation requirements by leveraging RSD agreements for NR Band n14 at RAN4#109 in [8].

2) Finalize TR 36.770 [9].

Performance Part:

1) Finalize TS 36.307 CR based on endorsed Draft CR in [5].

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

N/A.

## 4. References

[1] R4-2315273: TR Skeleton for Work Item on High Power UE (Power Class 2) for LTE FDD Single Band; AT&T

[2] R4-2315394: B14 PC2 REFSENS requirement; Apple

[3] R4-2318088: TP for TR 36.770 Scope and Background; AT&T, FirstNet

[4] R4-2318089: TP for TR 36.770 SAR Scheme; AT&T, FirstNet

[5] R4-2319031: Draft CR on the release independency of band 14 PC2 UE; vivo

[6] R4-2321716: WF on HPUE\_LTE\_FDD\_B14; AT&T

[7] R4-2318087: TR 36.770 v.0.1.0; AT&T

[8] R4-2321715: WF on HPUE for FDD bands; China Unicom

[9] 3GPP TR 36.770; “High Power UE (Power Class 2) for LTE FDD Band 14”