**3GPP TSG RAN meeting #107 RP-251004**

**Pragues, Czech Republic, June 10-13th, 2025** *rev of RP-250042*

## Status Report to TSG

**Title: Status report for WID: Inter RAT mobility support from E-UTRAN TN to NR-NTN; rapporteur: Thales, CATT**

**Agenda item:** 10.3.2

|  |  |
| --- | --- |
| **WI / SI Name** | Rel-19 Inter RAT mobility support from E-UTRAN TN to NR-NTN |
| included in this status report | Study Item: No | Core part: Yes | Performance part:Yes | Testing part:No |
| **Acronym** | LTE\_TN\_NR\_NTN\_mob |
| **Unique ID** | 1031076 |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-240846 |
| **Target Completion Date****(indicate if changed)** | Study Item: N/A | Core part: 09/2025 | Performance part: - | Testing part:  |
| **Overall Completion level** | Study Item: N/A  | Core part: Overall: 99%RAN2: 99% | Performance Part: - | Testing part:  |

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** | RAN2 |
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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.*

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## 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 RAN2

#### 2.2.1 Agreements

#### 2.1.1.1 Decisions during RAN2#129bis

##### 2.1.1.1.1 LTE to NR NTN mobility

Agreements:

1. RAN2 understands that UE supporting the ntn-RedirectionNR-r19 shall also indicate the support of supportedBandListNR-SA-r15 (no need to capture this in the spec)

2. Extend the capability signaling for E-UTRA TN to NR NTN redirection to also indicate the support of IRAT E-UTRA TN to NR NTN cell reselection. E-UTRAN that broadcasts NR satellite assistance info in SIB33 may configure dedicated priority for an NR NTN frequency, only if it receives this capability common to E-UTRA TN to NR NTN redirection and cell reselection (based on NW implementation).

3. The redirection to NR NTN information element is enclosed in an NTN specific CarrierInfoNR, which is introduced in the choice structure as nr-19.

#### 2.2.1.1 Decisions during RAN2#130

##### 2.1.1.1.1 LTE to NR NTN mobility

Endorsed CRs

* R2-2504096 Introduction of stage 2 for LTE TN to NR NTN idle mode mobility Samsung CR Rel-19 36.300 18.4.0 1412 4 B LTE\_TN\_NR\_NTN\_mob R2-2501416
* R2-2504530 Introduction of LTE TN to NR NTN IDLE mode mobility CATT CR Rel-19 36.331 18.5.0 5065 5 B LTE\_TN\_NR\_NTN\_mob-Core R2-2501418 Late
* R2-2503358 Introduction of LTE TN to NR NTN Mobility UE Capability vivo CR Rel-19 36.306 18.4.0 1900 4 B LTE\_TN\_NR\_NTN\_mob-Core R2-2501417

#### 2.2.2 Remaining Open issues

Check possible impacts on selected TS

## 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 SA2

#### 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

## 4.1 RAN2

**RAN2#129bis meeting, Wuhan, China 7-11th, 2025:**

* R2-2501776 discussion Remaining Issues on LTE to NR NTN Mobility vivo
* R2-2502056 discussion Discussion on a remaining issue for LTE\_TN\_NR\_NTN\_mob WI CATT
* R2-2502690 discussion Remaining issues on E-UTRAN to NR NTN mobility Samsung

**RAN2#130 meeting, La Valette, Malta, 19-23rd, 2025:**

* R2-2504007 discussion Discussion on dedicated priority via RRCConnectionRelease OPPO
* R2-2503673 discussion NTN mobility redirection signalling design China Telecom

***END***