**3GPP TSG-RAN WG2 Meeting #127 R2-24xxxxx**

**Maastricht, Netherlands, Aug 19th – 23rd, 2024**

Agenda Item: 8.8.1

Source: CATT (Rapporteur)

Title: Summary of [AT127][305][LTE\_TN\_NR\_NTN\_mob] RRC CR (CATT)

Document for: Discussion and Decision

# Introduction

This document provides summary on the following email discussion:

* [AT127][305][LTE\_TN\_NR\_NTN\_mob] RRC CR (CATT)

Scope: Update the RRC CR for E-UTRAN to NR NTN mobility based on meeting agreements

Intended outcome: Endorsable CR

Deadline for companies' feedback: Thursday 2024-08-22 20:00

Deadline for final CR (in R2-2407617): Friday 2024-08-23 08:00

# Discussion

During Tuesday discussion, it is agreed to adopt signalling Option 2 (introduce new NR NTN Sat. list in SIB33), but also to introduce a signalling design that avoid ephemeris data duplication, if the NR NTN satellite in the new Sat. list can use the ephemeris data of any IoT NTN satellite in the existing Sat. list:

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| Proposal 3: RAN2 down-selects following alternatives to identify the NR satellite assistance information:  - Alternative 1: Reuse the SatelliteId-r18 to identify either an NR satellite or an IoT NTN satellite;  - Alternative 2: Define NR specific satellite ID, e.g. SatelliteId-NR-r19, to identify NR satellite specifically.  - Samsung thinks we can go for Alt1 unless we find problems   * We go for Alt1 * We consider a solution that avoids repeating the ephemeris for a satellite which provides both IoT NTN and NR NTN cells. |

For this, Rapporteur proposes two Alternatives in the draft CR uploaded to the server, and wants to check companies views on which way to go with. Note that the legacy IoT NTN UEs can only rely on existing Sat. list to find the ephemeris data, thus is invisible to any ephemeris data included in the new NR NTN Sat. list.

**Question 1**: Which signalling alternative in the draft CR is preferred to save the ephemeris data duplication, if a satellite can supports both IoT NTN and NR NTN cells?

1. Alternative A;
2. Alternative B;
3. Others. If this is selected, please provide a direct TP on the signalling design.

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| Company | Option selection (1/2/3) | Comments/TPs, if any |
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**Question 2**: Any remaining Stage-3 issues that need to be further addressed?

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| Company | Issues and potential solutions, if any |
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# Conclusion

[TBD…

# Reference