3GPP TSG-RAN WG2 Meeting #131 *draft* R2-2506288

Bengaluru, India, 25th – 29th August, 2025

**Agenda item: 8.9.2**

**Source: Sateliot**

**Title: Report of [AT131][305][R19 IoT NTN] S&F Open Issue (Sateliot)**

**WID/SID: IoT\_NTN\_Ph3-Core**

**Document for: Discussion and Decision**

# Introduction

This document pertains to the following offline:

** [AT131][305][R19 IoT NTN] S&F Open Issue (Sateliot)**

      Scope: continue the discussion on remaining proposals from R2-2506152 and p1 and R2-2505437. Also draft the LS to CT1, SA2.

Intended outcome: summary of the offline discussion (in R2-2506288). Draft LS in R2-2507285

Offline time: FFS

Deadline for offline discussion summary: Friday 2025-08-29 18:00

In this offline we attempt to converge on the following remaining S&F-related open issues:

1. Scope and uniqueness of satelliteId
2. Paging in S&F satellite operation

# Discussion

## Uniqueness of satellite IDs:

It has been escalated that the space (e.g., 8-bit) allocated for satellite ID is not enough in case PLMNs have more than 256 satellites in their constalltions.

Q1: Is there any need to increase the ID space and define, example, satelliteID-r19?

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| --- | --- |
|  Company | Views for Q1 |
| Ericsson | We do not see a current need, given the scope of satellite ID and that the S&F monitoring list is only valid within a Registration Area. |
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## Paging Optimization in S&F:

It has been escalated that some paging optimization is possible during S&F mode operation, and in this respect, [4] has the following proposal.

 **Proposal 1 of [4]:An indication is introduced in the System information to indicate that the UE could skip monitoring paging and initiating RRC connection for MT data reception.**

Q2: Is there any need to indicate using a SIB that a UE can skip monitoring paging as outlined by proposal 1 of [4].

|  |  |
| --- | --- |
| Company | Views for Q2 |
| Ericsson | Yes. We consider that it is useful to save power when operating in S&F and there is no more downlink data in the satellite’s buffer. |
|  |  |

# Conclusion

In this offline discussion, we have the following proposals:

**Proposal 1: ...**

**Proposal 2: ...**

# Reference

1. R2-2506151.
2. R2-2506152.
3. R2-2505928
4. R2-2505437