**3GPP TSG-RAN WG3 Meeting #127-bis R3-25XXXX**

Wuhan, China, 7th – 11th April 2025

**Title:** (TPs to BL CR 38.410) Introduce NG Removal Function

**Source:** CMCC, Samsung, ZTE, CATT, Xiaomi

**Agenda item:** 14.3

**Document Type:** Other

# Introduction

In the 3GPP TSG RAN Meeting #103, the work plan for Non-Terrestrial Networks (NTN) for NR Phase 3 has been approved in RP-240775. One of the objectives is support of regenerative payload [RAN3, RAN2, RAN4]:

* Specify the support of gNB on board in TS 38.300
* Specify, if needed, any necessary enhancements related to the intra and inter-gNB mobility, especially for Xn interface over feeder link or over ISL. [RAN3]
* Note: if any additional necessary stage-3 specifications impact for e.g. NGAP is identified, RAN3 will handle it.

Based on WID, during RAN3 #125-bis, TP has been accepted to introduce NG Removal procedures in TS38.410 and TS38.413.

And in RAN3 #127, IoT NTN also introduce S1 Removal to support regenerative payload. And BLCR to 36.410 has been approved to add the S1 Removal description in S1 management functions.

# 2 Discussion

In RAN3 #125bis, BLRC has added the NG Removal procedure description in TS38.410. However, as the function description it is not included yet.

In RAN3 #127, IoT NTN has agreed to introduced S1 Removal to support Regenerative Payload as NR NTN, and BLCR to TS 36.410 added the S1 Removal description in S1 management functions.

For both stage 2 description of NG and S1, we think Removal is not only a procedure but also a function, the target to introducing the function shall be described clearly for NG Removal as for NG Reset.

**Proposal 1: Describe NG Removal function in TS38.410 as TP below.**

# 3 Summary

In this contribution, we provide considerations on the NTN regenerative payload in RAN3, following proposals are made:

**Proposal 1: Describe NG Removal function in TS38.410 as TP below.**

# 4 Reference

[1] RP-240775, work plan for NTN

[2] TS 38.300, NG-RAN stage2

[3] TS 38.413, NG application protocol (NGAP)

[4] R3-250052 (BL CR to 38.410) Introduce NG Removal procedure

[5] R3-250922 (BL CR to 36.410) Add S1 Removal

[6] RAN3\_126\_agenda\_20241122\_1444\_EOM, chairlady’s note

[7] RAN3\_127\_agenda\_20250221\_1300\_EOM, chairlady’s note

# 5. TP to BL CR for TS38.410 on NG Removal

<<<<<<<<<<<<<<<<<<<< Start of Changes >>>>>>>>>>>>>>>>>>>>

## 5.8 NG Interface Management function

The NG-interface management functions provide:

- means to ensure a defined start of NG-interface operation (reset);

- means to handle different versions of application part implementations and protocol errors (error indication).

- means to remove the interface instance between gNB and AMF in a controlled manner (removal).

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