

**Agenda Item:** 10.3  
**Source:** Nokia  
**Title:** **Coordination of Relocation in multiple Iu signalling connections**  
**Document for:** Decision

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## **1 Introduction**

This contribution proposes text for the RANAP specification TS 25.413 regarding the functionality required for coordination of several Relocation procedures in source and target RNC.

## **2 Proposed text**

### **8.2.7 Relocation Coordination in Source RNC**

Relocation coordination shall be executed by source RNC when serving RNS relocation is to be done for an UE having multiple Iu signalling connections. If multiple Iu signalling connections are involved following coordination of relocation shall be ensured by source RNC.

When RNC initiates relocation of serving RNC functionality for an UE, source RNC shall initiate Relocation Preparation procedure on all Iu signalling connections existing for the UE.

Source RNC has to indicate in each RELOCATION REQUIRED message the amount of Iu signalling connections involved into the relocation of the serving RNC.

Source RNC has to ensure that there is no conflicting information in source RNC to target RNC Transparent fields in RELOCATION REQUIRED messages transmitted via different Iu signalling connections and related to the same relocation.

When first Relocation Preparation procedure is successfully terminated, source RNC is allowed to proceed in executing the relocation of SRNC only after Relocation Preparation procedure is successfully terminated on all Iu signalling connections existing for the UE.

If source RNC receives RELOCATION PREPARATION FAILURE from CN, source RNC has to cancel all other pending or successfully terminated Relocation Preparation procedures related to the same relocation of serving RNC by initialising a Relocation Cancel procedure on the corresponding Iu signalling connections.

If source RNC decides to cancel Relocation Preparation procedure due to other reasons than reception of RELOCATION PREPARATION FAILURE, the Relocation Cancel procedure has to be initiated on all Iu signalling connection existing for the UE.

### **8.2.8 Relocation Coordination in target RNC**

Relocation coordination shall be executed by target RNC when a received RELOCATION REQUEST message indicates that more than one Iu signalling connection is involved.

Target RNC should handle Relocation Resource Allocation procedures in general independently of each other. However the information which may depend on the contents of all the expected RELOCATION REQUEST messages and which is to be sent in the transparent field to the source RNC (e.g.

information of new radio resources) shall be sent only after all expected RELOCATION REQUEST messages are received and analysed.

Target RNC has to ensure that there is no conflicting information in target RNC to source RNC Transparent fields in RELOCATION REQUEST ACKNOWLEDGE messages transmitted via different lu signalling connections and related to the same relocation.

The selection of signalling connection utilised for the different kind of transparent information in RELOCATION REQUEST ACKNOWLEDGE message is not dependent on the signalling connection via which transparent information was received in RELOCATION REQUEST message.

### **3 Proposal**

The chapter 8.2.7 "Relocation Synchronisation in source RNC" and chapter 8.2.8 "Relocation Synchronisation in target RNC" are proposed to be replaced by the text in chapter 2 of this paper.

It is further proposed that these coordination aspects are described within the chapter for the related elementary procedures:

I.e. the chapter 8.2.7 'Relocation Coordination in source RNC' should be moved to chapter 8.2.2 Relocation Preparation as a new subchapter 8.2.2.3 'Relocation Coordination in source RNC'. Chapter 8.2.8 should be moved to chapter 8.2.3 'Relocation Resource Allocation' as a new subchapter 8.2.3.3 'Relocation Coordination in target RNC'.