

Agenda Item: 8.2
Source: Nokia
Title: **URA Update Signalling Procedure Examples**
Document for:

1 Introduction

This contribution proposes signalling flows for the Intra RNS and Inter RNS *URA Update* procedures. Placeholders for these signalling examples were included in SMG2 ARC "UTRAN Functions, examples on Signalling Procedures" /1/.

The applicability of the contribution to the adopted 3GPP documents has to be checked after the merging process between technical specifications from the partner organisations.

2 Proposal for Intra-RNS URA Update

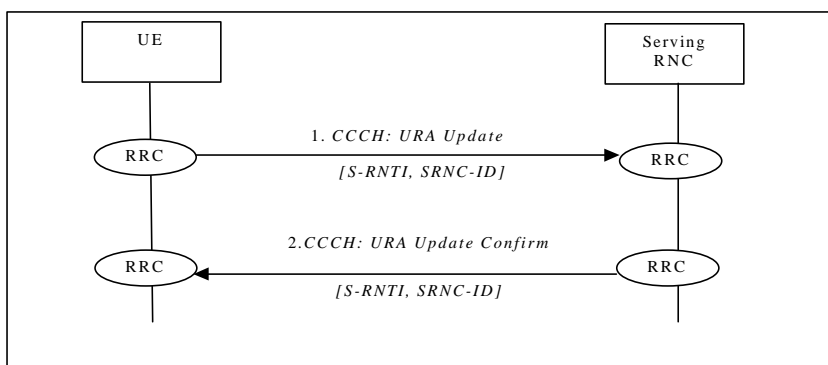


Figure 1. Intra RNS URA Update.

1. UE sends a RRC message URA Update to the UTRAN, after having made URA re-selection.
2. Serving RNC acknowledges the message by RRC URA Update Confirm.

It is ffs. whether a URA Update Complete is needed to confirm the successful reception of URA Update Confirm. The decision is to be made by 3GPP RAN WG2.

3 Proposal for Inter-RNS URA Update with switching in CN

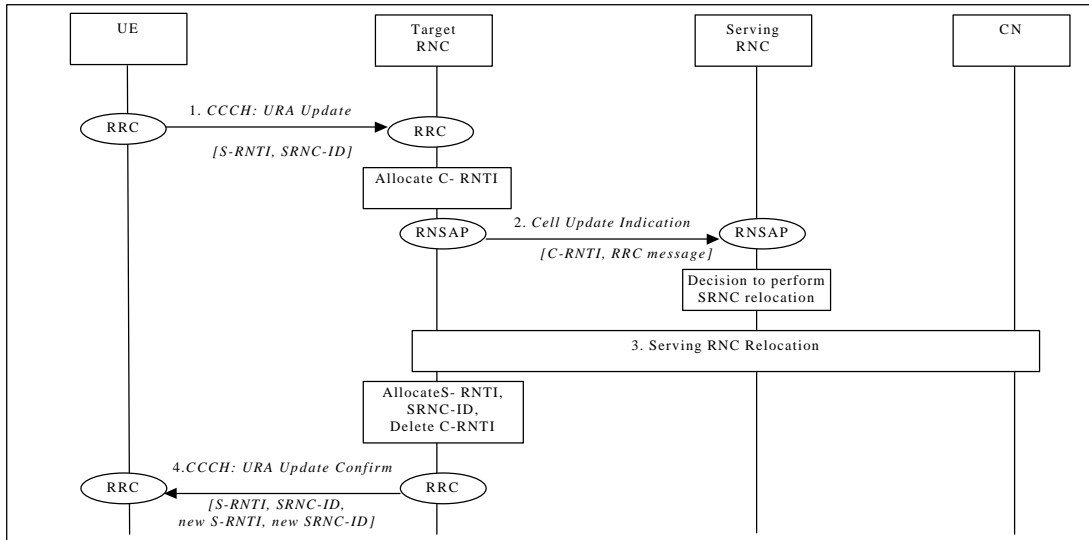


Figure 2. Inter RNS URA Update with switching in CN.

1. UE sends a RRC message URA Update to the UTRAN, after having made cell re-selection. Upon reception of a CCCH message from an unknown UE, controlling RNC allocates a new C-RNTI for the UE.
2. Controlling RNC forwards the received uplink CCCH message towards the SRNC by RNSAP protocol. C-RNC includes the allocated C-RNTI, which is to be used as a UE identification within the C-RNC, to the RNSAP message. Upon reception of the RNSAP message SRNC decides to perform a SRNC relocation towards the target RNC.
3. Serving RNC relocation procedure is executed as defined in Chapter 'SRNC Relocation (UE connected to a single CN node)'. After having completed SRNC relocation, target RNC allocates new S-RNTI for the UE. New SRNC also deletes the allocated C-RNTI, since it is not needed for an UE in RACH/PCH state.
4. Serving RNC acknowledges the message by RRC URA Update Confirm, including old S-RNTI and SRNC ID as UE identifiers. Message contains also the new S-RNTI and SRNC-ID.

It is ffs. whether a URA Update Complete is needed to confirm the successful reception of URA Update Confirm. The decision is to be made by 3GPP RAN WG2.

4 Proposal

It is proposed that the Intra RNS URA Update procedure is not included into the RAN WG3 documentation, since it is purely a air interface RRC protocol elementary procedure. Thus the placeholder for the procedure is proposed to be removed from the WG3 document corresponding to /1/. The description in chapter 3, Inter RNS URA Update (with switching in CN) is proposed to be included in the WG3 document corresponding to /1/.

5 References

/1/ UMTS ZZ.02, *UTRAN Functions, Examples on Signalling Procedures* v. 0.1.0, from Editor (CSELT)