Agenda Item: 14.2

Source: Ericsson

Title: **Specification of RRC procedure: RNTI reallocation**

Document for: Decision

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1   Introduction

Two companion contributions propose a new set of RRC states [2] and principles for how RRC procedures shall be specified using text [1].

This contribution contains a proposal for specification of the RNTI reallocation procedure using those states and principles.

2   RNTI reallocation procedure

2.1   Purpose

The purpose with this procedure is to allocate a new C-RNTI and/or S-RNTI plus SRNC identity to an UE in connected mode.
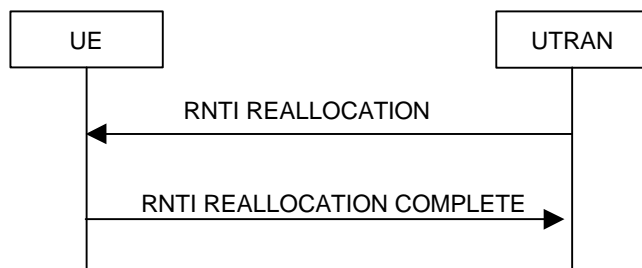

Figure 1. RNTI reallocation procedure, normal flow

2.2   Initiation

The UTRAN shall transmit an RNTI reallocation message to the UE on the downlink DCCH and start timer T361.

2.3   Reception of RNTI REALLOCATION by the UE

When the UE receives an RNTI REALLOCATION message, it shall take the actions in subclause 2.3.1 and then transmit an RNTI REALLOCATION COMPLETE message on the uplink DCCH. The procedure ends.

2.3.1   Message RNTI REALLOCATION contents to use

If the IEs "new S-RNTI" and "new SRNC identity" are present, the UE shall store and start to use the values of these IEs as the current S-SRNTI and SRNC-identity.

If the IE "new C-RNTI" is present, the UE shall store and start to use the value of this IE.

If the IEs "CN domain identity" and "NAS system information" are included, the UE shall forward the content of the IE to the non-access stratum entity of the UE indicated by the IE "CN domain identity".

2.4   Reception of RNTI REALLOCATION by the network

When the network receives RNTI REALLOCATION COMPLETE, UTRAN shall stop timer T361 and any old C-RNTI and S-RNTI and SRNC identity should be deleted. The procedure ends.

2.5   Abnormal case: T361 expiry

FFS.

3   Proposal

It is proposed that the current description of the RRC procedure "RNTI reallocation" TS 25.331 is replaced by chapter 2 of this contribution.

4   References

[1] TSGR2#6(99)809, Principles for specification of RRC procedures, source: Ericsson
[2] TSGR2#6(99)807, RRC protocol states, source: Ericsson