Agenda Item: 7.1

Source: Alcatel, Ericsson, Nokia, Nortel Networks

Title: High level principles for Cell Mobility and URA Mobility management over Iur

Document for: Decision

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1   Introduction

This short paper aims at presenting high level principles to agree on concerning the use of Iur for Cell Mobility and URA Mobility.

2   Principles

The principles to manage Cell and URA Mobility are the following :
1. Cell Update and URA Update have different requirements and thus are managed differently
2. Cell Update message is transferred on CCCH, therefore from the CRNC to SRNC over Iur using RNSAP Uplink Signalling Transfer procedure
3. Cell Update Reject is transferred on CCCH, therefore from SRNC to CRNC over Iur using RNSAP Downlink Signalling Transfer procedure
4. Cell Update Confirm is transferred on DCCH, therefore from SRNC to CRNC over Iur using the Iur User plane
5. URA Update Request message is transferred on CCCH, therefore from CRNC to SRNC over Iur using RNSAP Uplink Signalling Transfer procedure
6. URA Update Confirm and Reject are transferred on CCCH, therefore from SRNC to CRNC over Iur using the RNSAP Downlink Signalling Transfer.

Some more details need to be solved, in particular the kind of RNSAP interaction required between the SRNC and the DRNC to use common channel over Iur user plane, however we think that agreeing on these principles will allow to progress the specification work both in WG3 and WG2.

3   Rationale

The rationale for these principle are the following :
1. Not having to set-up Iur User plane for URA mobility management, because no C-RNTI is needed in URA update and no transfer of data is ongoing between the UE and the UTRAN.
1. Not mandating the establishment of Iur User plane in case of SRNS relocation.
2. Not mandating the establishment of Iur User plane in case of failure of the Cell update irrelevant of the decision to use or not the Iur User plane for common channels.
3. Being able to send the Cell Update confirm on DCCH to ensure ciphering
4. Assuring that RRC messages like Cell Update and URA Update are not interpreted by the CRNC.