

Agenda Item:

Source: Nortel Networks

Title: Draft LS to TSG RAN WG2 on high level principles for Cell Mobility and URA Mobility management over lur

Document for: Approval

To: TSG RAN WG2

From: TSG RAN WG3

Title: LS to TSG RAN WG2 on high level principles for Cell Mobility and URA Mobility management over lur

Document for: Information

3GPP TSG RAN WG3 would like to inform 3GPP TSG RAN WG2 on a certain number of agreements in 3GPP TSG RAN WG3 on high level principles for Cell Mobility and URA Mobility management over lur.

It should be highlighted that although CCCH and DCCH are mentioned there, it is not the intention of 3GPP TSG RAN WG3 to specify which channel to use. The basis of the concepts and agreement, in respect to 3GPP TSG RAN WG3, concerns the selection between RNSAP transfer or lur User Plane. The meaning of CCCH is that RNSAP is used to transfer Layer 3 information whereas the meaning of DCCH is that lur User Plane is used to transfer MAC-d PDUs.

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 lur using RNSAP Uplink Signalling Transfer procedure
3. Cell Update Reject is transferred on CCCH, therefore from SRNC to CRNC over lur using RNSAP Downlink Signalling Transfer procedure
4. Cell Update Confirm is transferred on DCCH, therefore from SRNC to CRNC over lur using the lur User plane
5. URA Update Request message is transferred on CCCH, therefore from CRNC to SRNC over lur using RNSAP Uplink Signalling Transfer procedure
6. URA Update Confirm and Reject are transferred on CCCH, therefore from SRNC to CRNC over lur 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 lur user plane, however these agreed principles will allow to progress the specification work both in WG3 and WG2.

The rationale for these principle are the following :

1. Not having to set-up lur 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 lur User plane in case of SRNS relocation.
2. Not mandating the establishment of lur User plane in case of failure of the Cell update irrelevant of the decision to use or not the lur 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.