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To: TSG RAN3

Cc: TSG CN2

Source: TSG SA2

Title: Answer to Liaison Statement concerning Paging Co-ordination

TSG SA2 has reviewed the liaison statement concerning paging co-ordination in the Core Network. Two different mechanisms are identified for paging co-ordination within a Core Network:

- 1) The domain which initiates a paging verifies with the other domain whether a signalling connection with the UE is established. In that situation the paging is sent via the UE – CN domain signalling connection to the UE. This is transparent to the UTRAN. A new non Access Stratum signalling message is required. If no signalling connection with the UE is established the standard Iu paging procedure applies.
- 2) The domain which initiates a paging verifies with the other domain whether a signalling connection with the UE is established. In this case the standard Iu paging message is sent to the SRNC only. The SRNC performs the same UTRAN paging co-ordination as specified for the separated CN domains. The Iu paging message is not sent to other RNCs if the paging area spans over more than one RNC. If no signalling connection with the UE is established the standard Iu paging procedure applies.

Both mechanisms are functionality within the Core Network only. No specific functionality for the UTRAN is identified. Comparing with approach 2) approach 1) requires a specific NAS paging message and new functionality for the UE. SA2 prefers therefore approach 2) to be adopted for paging co-ordination within Core Network. However, SA2 welcomes other views or improved solutions concerning the paging co-ordination within a Core Network.

In general SA2 has identified no functionality requiring other UTRAN paging co-ordination than required for separated Core Network domains.