TSG-RAN Working Group 1 meeting No. 11 February 29 – March 3, San Diego, USA

TSGR1-00-0268

3GPP TSG SA2 #11 Tdoc S2-000300 Puerto Vallarta, Mexico, 24 - 28 January 2000

Source: 3GPP TSG SA WG2

Title: Liaison statement on SoLSA support on UTRAN

To: 3GPP RAN4, RAN1,

Copy: SA1

S2 has received the attached liaison statement from S1 (Tdoc S2-00-0063; S1-99-1077) and think that RAN 4 and/or RAN 1 may be interested in reviewing and possibly responding to S1's liaison statement.

For example, it could be the case that adjacent channel interference from a mobile using a "home cell" at a long range might cause harm to other PLMNs.

3GPP TSG SA2 #11 Puerto Vallarta, Mexico, 24 - 28 January 2000

TSG S1 (99)1077

TSG-SA Working Group 1 (Services) meeting #5 San Diego, USA 29th Nov – 3rd Dec 1999

Agenda Item:

Tdoc S2-000063

Source: 3GPP TSG SA WG1

Title: Liaison statement to on SoLSA support on UTRAN

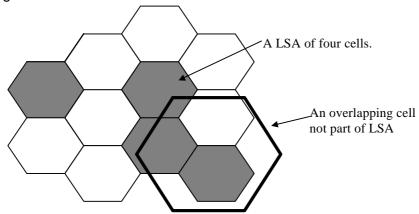
To: 3GPP RAN2, RAN3, SA2

S1 has transferred the SoLSA stage 1 from SMG1, and plans to update this to include the support of UTRAN in Release 99.

However S1 is not fully aware of all the implications of this and therefore wishes RAN2/3 and SA2 to study the issue.

S1 has discussed the issue of soft handover and the definition of Localised Service Area (LSA).

The following figure illustrates the situation for GSM as described in 22.030.



S1 understand that if all of the adjacent cells are on the same frequency then a user could be in soft handover between an LSA cell and another non-LSA cell. S1 therefore propose the following definition;

"A user shall be within an LSA providing he is in contact with at least one of cell that is designated as an LSA cell"

RAN 2, RAN 3 and S2 are requested to consider this definition and respond to S1.

Currently the Stage 1 contains the following definitions of Exclusive Access and LSA only access.

4.2.4 Exclusive access

For a cell belonging to one or more service areas and where only one or more specific subscribers shall have allowed access, other subscriber's mobile stations shall be prevented from using the cell to obtain any service, other than TS12 (Emergency Calls).

Handovers into cells belonging to localised service areas where only specific subscribers shall have allowed access, shall be possible to be prevented for other subscribers, if required by a SoLSA application.

4.2.5 LSA only access

With access allowed only within one or more localised service areas, it shall be possible to prevent receiving and/or originating activities from non-LSA cells outside LSA.

It shall be possible to prevent handovers to cells not belonging to allowed localised service areas, if required by a SoLSA application.

These features can be used to limit a user or group of users to the specific cells, or to restrict access to a specific cell (or number of cells) e.g. to an indoor base-station.

Given the definition of LSA provided above S1 invite the other groups to comment if these features can be supported in conjunction with UTRAN.

S1 understand that UTRAN SoLSA support can be included in Release '99, if TSG SA agrees to finalise the work by March 2000.