LIAISON STATEMENT

Subject: **Study of handover between UMTS and GSM/GPRS**

From: **3GPP TSG SA Wg2/ SMG12**

To: **3GPP TSG RAN Wg2,**

CC: **TSG RAN Wg3, SMG2, SMG2 WpA, 3GPP TSG SA Wg3**

3GPP TSG SA Wg2/SMG12 thank TSG RAN for its recent Ls providing initial assumptions on the support of handover between UMTS and GSM/GPRS.

3GPP TSG SA Wg2/SMG12 are keen to progress the work on handover between GSM/GPRS and UMTS.

Support for simultaneous mode

With regard to the note of assumptions in the case of handover of simultaneous IP and PSTN domain services, 3GPP TSG SA Wg2/SMG12 would like to raise 3GPP TSG RAN Wg3's attention to the recent ls from TSG SA S1 (Services) highlighting the requirements for Simultaneous Mode.
From the handover perspective GSM and UMTS need to provide handover between UMTS Simultaneous mode and GSM/GPRS (Class A) as well as other possible handovers.   See the following extract from the 3GPP TSG SA S1 liaison:

TSG SA WG1 has identified a requirement on having dual-mode GSM/UMTS terminals allowing handover between GSM BSS and UTRAN. It includes terminals which can perform handover of simultaneously active CS and PS data bearer between GSM/GPRS and UTRAN cells : a GSM/GPRS Class A and UMTS dual mode terminal.

Based upon this requirement 3GPP TSG SA Wg2/SMG12 are working to assess the impacts upon the GSM/GPRS architecture for handover. Handovers for simultaneous mode and other modes in relation to the support of different GSM/GPRS MS classes shall be considered.

 Impacts on UMTS and GSM for handover

The support of handover between UMTS and GSM will require functionality within the UTRAN, GSM BSS, GSM/UMTS CN and GSM/UMTS dualsystem UE. The impacts of handover on Services or on Radio channels description needs to be assessed. The delivery of handover this functionality may require developments for signalling, security and radio.

Signalling flows

Handover procedures from GSM/GPRS to UMTS should take into account issues such as security, access control, etc. Reuse of contemporary, enhanced or new signalling procedures from GSM/GPRS to satisfy the handover requirements need to be assessed.

3GPP TSG SA Wg2/SMG12 look forward to an ongoing close working between the GSM and UMTS communities to deliver the solution for handover between GSM and UMTS and are studying the technical impacts. 3GPP TSG SA Wg2/SMG12 welcome thoughts on how to achieve technical coherence of developments to enable the delivery of the handover (and other) features which will impact both the GSM/GPRS and UMTS systems.