

TSG-SA Working Group 1 (Services) meeting #3  
Hampton Court, Surrey, UK 10<sup>th</sup>-12<sup>th</sup> May 1999

**TSGS1#3(99)231**

Agenda: 6.2.2

**3GPP TSG-SA-3#2**  
**Stockholm, 23-25 March**

**Tdoc S3-99-080**

LIAISON STATEMENT

Source: 3GPP SA 3 (Security Aspects)

To SMG#29, SMG1, TSG-SA, TSG –SA WG1

Discussion Document on GSM/UMTS "interworking" with regard to SIM and USIM.

There is a service requirement that a UMTS Terminal shall support a GSM SIM, however, some have raised concerns over the security aspects of this. (This requirement is expressed in a "position paper" on the USIM originated in SMG9 and approved at SMG#27, Tdoc 98-624, with a further piece of added text added to it and approved at SMG#28.)

It has also been expressed that it would be useful if a UMTS USIM could work if inserted into a GSM terminal, although this is not a firm service requirement.

Consider the matrix below:

		Mobile type	
		GSM	UMTS
Card type	SIM	OK	GSM level of service, and GSM level of security
	USIM with a SIM installed	If a GSM application is available and "visible", GSM service will be offered, at GSM level of security	OK, enhanced UMTS security

In order to allow the combination of a SIM installed in a UMTS Mobile, the UMTS security system will have to deal with GSM security, i.e. the 64 bit Kc, in addition to the new and improved pure UMTS security.

3GPP Security group would like to make the point that the service represented in the top right box could extend some of the GSM security weaknesses into UMTS. Please see the attached LS from SMG10 which highlights some of the concerns.

To: SMG1, SMG#28  
From: SMG10

**Liaison Statement on the use of GSM SIMs as access devices for UMTS**

SMG10 has reviewed document 22.00, v1.2.1.

SMG10 notes requirement 9 (2), specifically, that:

“The UMTS mobile terminal shall support phase 2 and phase 2+ GSM SIMs as access modules to UMTS networks”

This requirement (in spite of the option of operators not to accept GSM SIMs as access modules) will mean that UMTS has to support two security architectures for UMTS, an improved UMTS architecture, and the GSM security architecture. SMG10 believe this is a complex and involved task for the specification of the terminal and the network that can only be justified by firm service requirements. Further, the work that SMG10 has done in devising improved security for UMTS is rendered of little use if operators are allowed to revert to GSM security on their UMTS networks.

SMG10 therefore ask SMG1 to reconsider the requirement for UMTS to support phase 2 and phase 2+ GSM SIMs as access modules to UMTS networks and, to consider whether the requirement is really necessary or not.