3GPP TSG SA WG3 (Security) meeting #28

6-9 May 2003, Berlin, Germany

Title:	LS on 'Handling of START values stored on a ME for use with a SIM'
Response to:	
Release:	5
Work Item:	UMTS security
Source:	SA3
To:	CN1, T3, RAN2, GERAN
Cc:	
Contact Person: Name: Tel. Number: E-mail Addre	Marc Blommaert +32 14 25 3411 ss: <u>Marc.Blommaert@siemens.com</u>

Attachments: S3-030217

1. Overall Description:

SA3 have approved a CR that clarifies the handling of 'ME-stored START values for use with a SIM'. SA3's opinion is that the CR does not introduce any new requirements to the ME, so Stage 3 specification would not be affected.

2. Actions

None

3. Date of Next TSG SA WG3 Meetings:

Meeting	Date	Location						
SA3#29	15-18 July 2003	San Francisco, USA						
SA3#30	7-10 Oct 2003	NN						

6 - 9 May	2003,	Dell	III, O	enna	iiy									CR-Form-v7
CHANGE REQUEST														
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For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.										mbols.				
Proposed	change	affec	ts: l	JICC a	apps#		ME	K Ra	dio A	ccess Ne	etwork		Core N	etwork
Title:	Ж	8 Hai	ndling	of ST/	RT valu	es sto	ored on a	ME f	or us	e with a S	SIM			
Source:	Ħ	Sie Sie	mens,	Nokia	<mark>, Vodafo</mark>	ne								
Work item	code: #	Sec	curity							Date	e: ೫	28/4	/2003	
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***** Start of change *****

6.8.2.4 R99+ ME

R99+ ME with a SIM inserted, shall participate only in GSM AKA.

GSM AKA results in the establishment of a GSM security context; the GSM cipher key Kc and the cipher key sequence number CKSN are stored in the ME.

When the user is attached to a UTRAN, R99+ ME shall derive the UMTS cipher/integrity keys CK and IK from the GSM cipher key Kc using the conversion functions c4 and c5. The ME shall handle the $START_{CS}$ and $START_{PS}$ as described in section 6.4.8 with the exception that the START values <u>shall beare</u>_stored <u>in non-volatile memory</u> on the ME rather than on the GSM SIM. If the ME looses the current START value for a particular domain (e.g. due to power off) If a different SIM is inserted then the MEit shall delete the corresponding GSM cipher keys for the PS and CS domain (Kc), the derived UMTS cipher/integrity keys (CK and IK) for the PS and CS domain, and reset the START values to zero. The ME shall then trigger a new authentication and key agreement at the next connection establishment by indicating to the network that no valid keys are available for use using the procedure described in section 6.4.4.

When the user is attached to a UTRAN, a R99+ ME with a SIM inserted shall use a default value of all ones for maximum value of $START_{CS}$ or $START_{PS}$. The ME shall handle the maximum value of $START_{CS}$ or $START_{PS}$ as described in section 6.4.3 with the exception that the maximum value of $START_{CS}$ or $START_{PS}$ is stored on the ME rather than on the GSM SIM.

***** End of change *****