

3GPP TSG SA WG3 Security ó SA3#36  
23 ñ 26 November 2004  
Shenzhen, China

S3-041077

**Title:** WID for Access Security Enhancements  
**Source:** SA WG3 (agreed at SA WG3 meeting #36)  
**Document for:** Approval  
**Agenda Item:** 7.3.3

### Work Item Description

**Title** Access Security Enhancements

**1** 3GPP Work Area

X	Radio Access
X	Core Network
	Services

**2** **Linked work items**

None.

**3** **Justification**

SA3 has agreed that long-term security enhancements are needed to protect GERAN Access Network in the future. A deeper study of GERAN security weaknesses, in particular security dependencies between various uses of the GSM security context, and consideration of potential future attack scenarios is needed, to decide on suitable long-term enhancements of security for GERAN Access Network and other access types relying on GSM security context. Re-use of UMTS security context also need to be taken into account.

**4** **Objective**

The overall objectives are:

- to complete a threat analysis and security requirements capture for GERAN Access Network.
- to develop suitable, feasible and cost effective long-term security enhancements for GERAN (and possibly UTRAN) Access Network
- to develop a cost-effective migration strategy for improving access security in 3GPP systems

**5** **Service Aspects**

None identified yet.

**6** **MMI-Aspects**

Impact on existing security indicators on the UE (e.g. ciphering indicator) will be investigated.

**7 Charging Aspects**

None identified yet.

**8 Security Aspects**

The subject of this work item is security.

**9 Impacts**

Affects:	UICC apps	ME	AN	CN	Others
Yes		X	X	X	
No					
Don't know	X				

**10 Expected Output and Time scale (to be updated at each plenary)**

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
33.8xx	Access Security Review	SA3		SA #28	SA #29	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
43.020		Enhancements				
33.102		Enhancements				

**11 Work item rapporteur(s)**

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**12 Work item leadership**

TSG SA WG3

**13 Supporting Companies**

Ericsson, Qualcomm Europe, Vodafone, Telenor, Nokia, BT Group, Siemens

**14 Classification of the WI (if known)**

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

none

