

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 resp. WG	2ndary resp. 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