Work Item Description

Title

General R99-security enhancements

1 3GPP Work Area

X	Radio Access			
X	Core Network			
X	Services			

2 Linked work items

None identified

3 Justification

This work item is intended to cover miscellaneous security enhancements to R99 which are not covered by any other security work item. Examples of miscellaneous items include:

- Feasbility Feasibility of an authentication vector revocation mechanism
- Feasibility of positive Aauthentication result reporting
- Feasibility of control of lifetime of SA
- UE triggered authentication
- Retention of P-TMSI signature

4 Objective

The general objective of this work item is to produce the necessary CRs which provide the identified miscellaneous security enhancements.

5 Service Aspects

None identified.

6 MMI-Aspects

None identified.

7 Charging Aspects

None identified.

8 Security Aspects

The main aspect of this work item is security.

9 Impacts

The following examples only have an impact on CN:

- Feasibility of an authentication vector revocation mechanism
- Feasibility of positive Aauthentication result reporting
- Feasibility of control of lifetime of Sasecurity association (cipher/integrity keys established after an authentication)

The following examples have an impact on ME, AN and CN

- UE triggered authentication
- Retention of P-TMSI signature

Affects:	USIM	ME	AN	CN	Others
Yes					
No					
Don't					
know					

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

Feasibility of an authentication vector revocation mechanism

N4 will look at this issue in July 2000 and respond to S3. <u>Target for S3 decision/implementation:</u> <u>December 2000.</u>

Feasibility of postive Aauthentication result reporting

N4 will look at this issue in July 2000 and respond to S3. S3 feel that it is May be acceptable to only support this for 3GPP2 subscribers. Target for S3 decision/implementation: December 2000

Feasibility of control of lifetime of security associationSA

Target for S3 decision/implementation: December 2000

UE triggered authentication

Target completion date: December 2000

Retention of P-TMSI signature

No security issues were identified with removal of P-TMSI signature from service request. BT asked to clarify that removal only addresses the service request. Decision to be made at CN#8.

Any further changes to P-TMSI signature should be approved by S3 plenary first. In the long term S3 need to describe the P-TMSI signature concept in 03.20/33.102 to ensure good visibility.

Meeting	Date	Activity	

^{*}We haven't really discussed this in a S3 meeting, but its fine by me

	New specifications						
Spec No.	Title		Prime rsp. WG	rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
			Affe	cted existi	ng specificati	ons	
Spec No.	CR	Subject		Approved at pl			Comments

Work item raporteurs

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Work item leadership

TSG SA WG3

13 Supporting Companies

Telenor Nokia Vodafone

14 Classification of the WI (if known)

Various

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