

Work Item Description

Title: **User plane protection in access network**

To provide authentication and integrity for the user data (Voice, Messages, Signalling, etc.) of a 3G network.

1 3GPP Work Area

	Radio Access
	Core Network
X	Services

2 Linked work items

There is related work items in S3: “Access network security for IP-based services”
“Ability of terminal/USIM to reject unencrypted connections”

3 Justification

With the provision of mobile services in R00 there will be a need to provide integrity and security of the user data transacted in the service. This work item will identify a standard and consistent way to secure the transfer of information.

4 Objective

The R00 system architecture may create new requirements and/or opportunities for introducing integrity protection for user plane data in R00. This may create opportunities for providing enhanced security, e.g. for e-commerce services.

5 Service Aspects

This WI implies that there will be a standard way of incorporating these mechanisms into services so that the use of the security aspects of all services is consistent. The work item will need to take into account current security procedures for existing or currently defined services.

6 MMI-Aspects

There will be no MMI aspect other than the mechanism to indicate to the user that normal integrity protection is not available, as detailed in WI “Ability of terminal/USIM to reject unencrypted connections”

7 Charging Aspects

None/Text

8 Security Aspects

9 Impacts

Work Tasks may involve S2, S3, R2, R3, N1, [SMG 2 WP A].

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

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

	June/July 2000	Presentation by S2 to S3 of well-defined and understandable system architecture concepts and principles
S3#15	September 2000	Requirements capture
S3#16	November 2000	First Draft: Security feature specification
	January 2001	Feasibility study, including definition of Work Tasks and completion of the plan for this Building Block
-	-	<i>Definition of security architecture</i>
	March, 2001	First draft
	March, 2001	CRs approved
-	-	<i>Integration of security architecture</i>
	April, 2001	Concept presented to CN, RAN, T and GERAN
	July, 2001	First draft CRs
	October, 2001	Complete CRs
	December, 2001	CRs approved at TSG level
		Review of complete CRs by S3
		First corrective CRs prepared
		Corrections agreed at TSG level

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
33.102		Security Architecture				Include USS
33.103		Security Integration Guidelines				Include USS
21.133		Security Threats and Requirements				Include USS

11 Work item rapporteurs

Stuart Ward Orange;stuart.ward@orange.co.uk

12 Work item leadership

SA3

13 Supporting Companies

Orange (???)
Anyone else please

14 Classification of the WI (if known)

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

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)