3GPP TSG SA WG3 Security — S3#15 **S3-000626**

12-14 September, 2000

Washington D.C., USA

Work Item Description

Title: Access security for IP-based services

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

1. There are related work items in S3: “User plane protection in access network”, “Core Network Solution” and “Lawful Interception in the R’2000 architecture”
2. There is a related work item in S2: “An architecture for Call control and roaming to support IP-based multimedia services in UMTS”

3 Justification

The work item “An architecture for Call control and roaming to support IP-based multimedia services in UMTS” describes the ongoing work in 3GPP for R00, which has been initially tasked by SA to S2 under the “all-IP option” by SA#4 (6/99).

TSG-S3 has prime responsibility for all security-related specification work in 3GPP including the new all-IP architecture and secure access to IM-services.

4 Objective

The objective with this WI is to solve the security aspects that are related to secure access for the new IP Multimedia services, IM services in R00. The IM services will include different applications like voice, video and data. The trustrelations and the security services between the end-user, the IM-domain, the PS-domain and the CS-domain shall be defined. Also the mechanisms for registration/authentication of a roaming/non-roaming end-user making registration to the IM-domain using SIP will be treated in this WI. This shall include the definition of the needed encryption and integrity mechanisms for protection of the control plane and the user plane. The evolution and/or reuse of the existing R99 architecture for authentication and key agreement shall be considered.

5 Service Aspects

yes, the end-user shall be able to access the services located at the home IM-domain wherever the end-user may roam to. It shall also be possible to use different access technology to connect the “IP multimedia CN Subsystem” e.g. xDSL, wireline and Wireless LAN etc.

6 MMI-Aspects

yes, visibility and configurability. Issues like visibility of offered security level and user interaction shall be studied.

7 Charging Aspects

none identified

8 Security Aspects

yes, this WI issues security features

9 Impacts

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

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

The timeplan is taken from S3-000314 and it has to be updated.

Meeting	Date	Activity
S3#13	May 23-26, 2000	Presentation by S2 to S3 of well-defined and understandable system architecture concepts and principles
S3/CN WGs Joint ad-hoc	June 14-15, 2000	Requirements capture
S3#14	August 1-4, 2000	Security feature specification
S3#15	September 12-14, 2000	Feasibility study, including definition of Work Tasks and completion of the plan for this Building Block
-	-	*Definition of security architecture*
S3#16	November, 2000	First draft
S3#17	~~January~~February/March, 2001	CRs approved
-	-	*Integration of security architecture*
	~~February~~April, 2001	Concept presented to CN, RAN, T and GERAN
	~~March~~May, 2001	First draft CRs
	~~April~~May, 2001	Complete CRs
	~~May~~June, 2001	CRs approved at TSG level
	~~June~~July, 2001	Review of complete CRs by S3
	~~July~~August, 2001	First corrective CRs prepared
	~~August~~September, 2001	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				Include IP-base services
21.333				Include IP-base services

11 Work item raporteurs

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12 Work item leadership

S3

13 Supporting Companies

Ericsson, ~~….~~Nokia, Motorola, Siemens, Lucent, Nortel Networks

~~Please indicate if your company should also be here!~~

14 Classification of the WI (if known)

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

14b The WI is a Building Block: parent feature

"Provisioning of IP-based multimedia services"