3GPP TSG SA WG3 Security — S3#18　　　　　　　　　　**S3-010284**

21-24 May, 2001

Phoenix, USA

Work Item Description

Title

Security Aspects of Requirement for Network Configuration Independence

1　　　　3GPP Work Area

	Radio Access
X	Core Network
	Services

2　　　　Linked work items

Text

3　　　　Justification

SA2 has determined an architectural requirement to allow operators not to reveal the details of their network configuration. Reasons for this requirement for instance include network management and security related arguments (see TS 23.228 Annex C for more detail). One security aspect that SA2 identified was in the scalability issues associated with having security relationships between all CSCFs in all networks in absence of such a network configuration independence.

4　　　　Objective

The objective of this work item is for SA3 to consider the security aspects of the requirement for Network Configuration Independence, as formulated by SA2 in TS 23.228, section 4.4 and annex C.

SA2 has determined this requirement and has considered some potential architectural solutions. SA3 is asked to study the security requirements of different solutions. The expected outcome of this work is one or more CR's to TS 23.228, describing the solution preferred by SA3 for meeting the network independence requirement.

5　　　　Service Aspects

None

6　　　　MMI-Aspects

None

7　　　　Charging Aspects

None

8   Security Aspects

Security aspects, as identified by SA2,may include
- establishment of security associations between CSCF's
- improved handling of denial of service attacks by not revealing CSCF addresses outside of the operator network

9   Impacts

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

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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
23.228		IP Multimedia (IM) Subsystem				

Meeting	Date	Activity
S3#19	July, 2001	Presentation and discussion of CR's to 23.228 which reflect the SA3 recommendation on the appropriate security mechanism for network configuration hiding requirement. Results to be sent to SA2 via LS with SA3 recommended attached CRs
S3#19	August, 2001	Review and adopt the SA3 recommendation for the mechanism for network configuration hiding requirement as indicated in the CRs provided in the LS from SA3.
SA#13	September, 2001	Approve the CRs to 23.228 for the specification of the mechanism for the network configuration hiding requirement.

11   Work item raporteurs

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12   Work item leadership

SA3

13   Supporting Companies

AT&T Wireless, Nokia, Lucent, Nortel

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"