

12-14 September, 2000

Washington DC, USA

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Source: BT  
 Title: WI description for VHE Security  
 Document for: Approval  
 Agenda Item: 8.3

**Work Item Description**

**VHE Security**

**1 3GPP Work Area**

	Radio Access
X	Core Network
X	Services

**2 Linked work items**

MExE Security  
 USIM Toolkit security enhancements  
 OSA Security

**3 Justification**

Virtual Home Environment (VHE) is defined as a concept for personal service environment portability across network boundaries and between terminals. The concept of the VHE is such that users are consistently presented with the same personalised features, User Interface customisation and services in whatever network and whatever terminal (within the capabilities of the terminal and network), where ever the user may be located. The key requirements of the VHE are to provide a user with a personal service environment which consist of:

- Personalised services;
- Personalised User Interface (within the capabilities of terminals);
- A consistent set of services from the user's perspective irrespective of access e.g. (fixed, mobile, wireless etc. Global service availability when roaming.

VHE is intended to provide:

- A common access for services in future networks;
- An environment for the creation of services;
- The ability to recover a personal service environment (e.g. in the case of loss/damage of user equipment).

**4 Objective**

The objective of this work item is to ensure that VHE service requirements and service features for Release 2000 incorporate appropriate security. The work item will allow S3 to review the work carried out in the S1 VHE adhoc group, specifically security aspects of: -

- The definition, storage and transmission of the VHE user profile including confidentiality and Integrity issues for personal data
- Extensions to existing toolkits, and new toolkits, that concern the Protection of sensitive user data, Integration with Location Services and the retrieval of terminal capabilities and display of terminal capabilities information.
- Interaction between toolkits and IP multimedia services
- The requirement to make roamed-to network capability available to services

**5 Service Aspects**

None identified

**6**

**MMI-Aspects**

Not yet investigated

**7**

**Charging Aspects**

none

**8**

**Security Aspects**

The work item is a security item.

**9**

**Impacts**

<b>Affects</b> :	<b>USIM</b>	<b>ME</b>	<b>AN</b>	<b>CN</b>	<b>Others</b>
<b>Yes</b>		X		X	
<b>No</b>					X
<b>Don't know</b>	X				

**10**

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

<b>Meeting</b>	<b>Date</b>	<b>Activity</b>
S3#16	November, 2000	Complete review of VHE specifications
	December 2000	CR's to 22.121 and 22.127 if required Final CR's to Security Architecture TS 33.102 approved at TSG level
	April 2001	Integration of security architecture Complete CRs
	June 2001	CRs approved at TSG level

<b>New specifications</b>						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
<b>Affected existing specifications</b>						
Spec No.	CR	Subject		Approved at plenary#	Comments	
33.102					Possible expanded scope and place of use for existing security features	
TS 22.121		Virtual Home Environment R99			Possible CR,s depending on result of threat analysis	
TS 23.127		VHE/OSA for R99			Possible CR,s depending on result of threat analysis	

**11 Work item rapporteurs**

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**12 Work item leadership**

TSG SA WG3

**13 Supporting Companies**

BT, Motorola, Ericsson, France Telecom, Nortel Networks

**14 Classification of the WI (if known)**

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