3GPP TSG SA WG3 Security — S3#14 **S3-000438**

2-4 August, 2000

Oslo, Norway

VHE Adhoc Group meeting #1 **Vhe ad (00) 013**
Stockley Park London: 31st May

Source: VHE adhoc group

Work Item Description

Title: **Scope of VHE in Release 2000**

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

Terminals are an area specifically to be addressed for the support of services.

2 Linked work items

MExE Release 2000
CAMEL Phase 4
(U)SIM Application Toolkit (WID name to be confirmed)
OSA Release 2000

3 Justification

The work item describes the work to be done from a services point of view on VHE work remaining from Release 1999, together with support of Release 2000 IP Multimedia service requirements.

4 Objective

The objective of this work item is to define concepts regarding general VHE service requirements and service features for Release 2000. The work item will address:-

- Detailed definition of the VHE user profile
- Support of extensions to existing toolkits, and new toolkits where determined
- Interaction between toolkits to enable IP multimedia services
- Transparent roaming for services
- Completion of work which cannot be achieved in R99

5 Service Aspects

The focus of the work shall be:-

IP Multimedia architecture.

The IP multimedia architecture is not considered to make any difference to the service concept provided by VHE. VHE should be transparent to the transport mechanisms. There may be new service capabilities that are realised due to IP architecture and need to be realised in R00 specification.
Under this section some VHE service scenarios need to be considered e.g what happens when a CS only user roams into a PS domain what level of VHE should they expect.

Personal Service Management.

Identifying the handling of user profiles e.g Identify which user is active at any given time in a multiple subscriber profile.
The following are issues for standardisation:

Format
Minimum content
User privacy issues
Application extension of the profile.

- terminal configuration preferences

Applicability of existing toolkits.

This section will also consider (re) introduction of capabilities that have been removed from R'99. How the existing toolkits can be used to enhance VHE R00 will include the study of:

- **Enhanced Security;**
  The security mechanisms that allows encryption of sensitive user data.
- **Enhanced Session Control;**
  This provides the enhancements of the bearer manipulation and creation of bearers/sessions sessions (in particular negotiation of the QoS).
- **Enhanced UserProfileManagement**
  The integration of the Personal Service Environment Management (PSEM) within the Network and Framework SCFs.
- **User Location**
  Further integration of the Location Services within the provisioning of geographical positioning information, taking into account the evolution of the 3G networks associated with this capability.
- **Terminal Capabilities**
  This needs to be studied in collaboration with T and T2. In R99, the mechanism to retrieve the terminal capabilities is only applicable to WAP phones. It is needed to study for R00 a mechanism that is applicable to all types of phones. Security mechanisms for the display of terminal capabilities information have to be studied too.

Interoperatability between toolkits

Are there cases were interoperatability between toolkits becomes an issue? It has been identified by SMG9 that study on interaction between WAP and SAT is important and needed. Some requirements will probably/certainly have to be taken into account by S1. In the list above, it can affect the following points: Enhanced Security, Enhanced Session control, Enhanced UserProfileManagement, User Location.

Service Continuity

VHE shall be access network independent. Requirement on how this is realised needs to be specified in R00 specification.

The following aspects have to be considered:

- **Provision of Home Services**

A user roaming to a visited PLMN must be able to use services as provided in the home PLMN.

- **Sevices awareness of roamed-to network capability**
  The home network might need to notify the application or services about a change of the capability of the far end network in order to provide VHE. This is needed for example to ensure that handling of Incoming Multimedia Calls when roaming in CS network are handled appropriately from the subscriber and operator point of view.

- Independence of Access Technology
  The capability to support different access network should be realised. e.g mobile terminal requiring access to a

  fixed network,
  a bluetooth network,
  a 2G/3G network

Currently to realise this level of support there needs to be a close collaboration with other standardisation groups in this area such as ETSI SPAN group.

6 MMI-Aspects

The MMI to access IP multimedia services will not be standardised but will be manufacturer specific and/or will be left to applications based on toolkits in the terminal. Standardisation will be made however of the functions that the user or application will be expected to access/perform via any MMI, e.g. setting up a service specific parameter list.

7 Charging Aspects

Charging of IP-based multimedia services shall be addressed

8 Security Aspects

Security of IP-based multimedia services shall be addressed.

9 Impacts

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

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

The results of this Workitem shall be provided in a Technical Standard.

In order to clearly state the TSG-S1 Service Requirements to other TSG's and WG's in a timely fashion the following Work Plan is proposed.

S1	*Dates*	*Actions*
S1 VHE /OSA adhoc	May 31 2000	• Start the work • Produce the Work Item Description •
VHE/OSA e-mail list	June 19-20	• Email Discussion to include: • Finalise WID to be submitted to and approved at SA#8 • Prepare CRs for R00

VHE adhoc	June 23	• Conference call (3pm BST) • Prepare CRs for R00
		•
SA	June 26 – 28 2000	• WI to SA for approval
S1 VHE Drafting Session	July 3/4- 2000 (Possible additional dates July 5/6)	• Produce CR to Stage 1 document. • • Meeting same venue as R00 adhoc
VHE /OSA e-mal list	July 10 - 11	• Email Discussion
VHE adhoc	July 13	• Conference call (3.00pm BST)
S1	July 17 – 21 2000 Copenhagen	• Present CR to S1 Plenary for approval
SA	25 – 28 September	Approval of CR at SA #9 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
TS 22.121		Virtual Home Environment R99		
TS 23.127		VHE/OSA for R99		

11 Work item raporteurs

Jumoke Ogunbekun Fujitsu Europe Telecom

12 Work item leadership

TSG S1

13 Supporting Companies

[Fujitsu Telecom Europe, Ericsson, Motorola, Siemens , France Telecom, Nortel Networks, Alcatel]

14 Classification of the WI (if known)

	Feature (go to 14a)
	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)