3GPP TSG-T#11
Palm Springs, CA, USA, 14-16 March 2001

TP-010031

3GPP TSG-T2 #12
Los Angeles, US
12th - 16th February 2001

T2-010221

Work Item Description

Title MExE Release 5 Improvements and Investigation

Evolving from the established MExE Release 1998, Release 1999 and Release 4 specifications, the MExE Release 5 work extends and develops the UE-based support of the client/server model for the flexible support of 3G services (e.g. multimedia services).

1 3GPP Work Area

	Radio Access
	Core Network
X	Services
X	Terminals

2 Linked work items

Virtual Home Environment (VHE)
Customised Application for Mobile Enhanced Logic (CAMEL)
Universal SIM Application Toolkit (USAT)
Open Service Access (OSA)
MExE Security

3 Justification

MExE is based on the concept of identifying external standards suitable for supporting services from an UE, and bringing them into the 3GPP scope by direct reference. In particular MExE enables the access to content and services from operators', manufacturers' and third parties' servers, and from the internet.

For Release 5 MExE will investigate the adoption of recent developments within the ECMA standards organisation on defining a profiled, multi-programming language, secure runtime environment known as the “Common Language Infrastructure (CLI)”, supporting an XML-based approach to system interoperability. Investigate API commonality between this new classmark, and existing classmarks.

Support of the Virtual Home Environment will be enhanced through investigation of any work done to define the VHE user profile, enabling the services toolkits to interact and share services information. Further, MExE will also co-operate with TSG-SA5 to investigate the opportunity to support terminal management. Enhanced support of services will also be investigated through the use of AT commands, the sending of pushed services and provisioning of services on the UE.

4 Objective

MExE Release 5 targets the following areas:-

- General enhancements and improvements
- Investigate and identify support for the terminal parts of the VHE User Profile with TSG-SA1 and TSG-SA2
- Investigate and identify support of USAT/OSA/CAMEL interaction to provided advanced services with TSG-T3, TSG-SA2, TSG-CN5 and TSG-CN2
- Investigate and identify support for a new MExE classmark (using ECMA's Common Language Infrastructure specifications)
- Investigate and identify support of security enhancements

- Investigate and identify support of terminal management support with TSG-SA5
- Investigate and identify support of AT commands
- Investigate and identify support of Push services
- Investigate and identify support of service provisioning

5 Service Aspects

MExE supports services via applications on the UE, possibly interacting with applications on remote servers.

6 MMI-Aspects

MExE supports MMI enhancements via applications and browsers in line with the principles of VHE

7 Charging Aspects

MExE enables MExE executables to potentially support charging for services. MExE will liase with TSG-SA5 for charging-related issues.

8 Security Aspects

MExE will liase with TSG-SA3 to ensure support for any security-related changes and improvements which may be identified.

9 Impacts

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

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
22.057			TSG-SA#12	
23.057			TSG-T#14	

11 Work item raporteurs

Mark Cataldo (Motorola Limited)

12 Work item leadership

TSG-T2

13 Supporting Companies

Motorola, Ericsson, Siemens Mobile Phones, Microsoft Corporation, BT, Sonera, Telia, Vodafone,Telecom Italia Mobile, Nokia, Materna GmbH, NTT DoCoMo, Mitsubishi Electric

14 Classification of the WI (if known)

X	Building block