# 3GPP TSG-T (Terminals) Meeting #14 Kyoto, Japan, 12 - 14 December 2001

Tdoc TP-010281

3GPP TSG-T2 #15 Cancun, Mexico 26-30 November 2001 T2-011244

### **Work Item Description**

Title: MExE Security Analysis Activity

### 1 3GPP Work Area

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		Radio Access
	X	Core Network
	X	Services
ĺ	X	Terminals

### 2 Linked work items

- ?? Access Security for IP-based Services
- ?? Virtual Home Environment Security
- ?? Open Systems Architecture Security
- ?? SIM Application Toolkit Security
- ?? OAM&P (Operations, Administration, Maintenance & Provisioning) Enhancements User Equipment Management

### 3 Justification

The work in T2 on MExE is based on the concept of identifying external standards suitable for supporting services from User Equipment (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.

It is essential that such developments incorporate security features to preserve the integrity of the network and protect the confidentiality and integrity of third party and end user data and applications.

### 4 Objective

To conduct a threat analysis for MExE and review the security features documented in TS 23.057 for effectiveness in countering those threats.

The methodology adopted will carry out a Security Analysis of the MExE Release 4 & 5 specifications. The work covered by this WID is expected to:-

- ?? Perform a security analysis for the different releases of MExE and the associated classmarks.
- $\ref{eq:concepts}$  Identify issues in terms of security concepts and mechanisms for MExE
- ?? Identify potential threats, weaknesses and security shortfalls
- ?? Create policy as countermeasures for identifiable weaknesses
- ?? To map policies to the requirements within the specification

The output of this exercise will be used as a basis to potentially agree any necessary CRs to S1's 22.057 (Mobile Execution Environment) specification and T2's 23.057 (Mobile Execution Environment)

specification, and to S3's 21.133 (Security Threats and Requirements)-TR 33.900 (3G Security) and 23.102 (Services and Systems Aspects - Security).

### 5 Service Aspects

MExE supports services via MExE executables in the MExE device. Investigate that applications (e.g. e-commerce, m-commerce) can be deployed, operated, upgraded and deleted in a secure manner.

### 6 MMI-Aspects

MExE supports MMI enhancements via applications and browsers in line with the principles of VHE. Investigate possible security aspects to the MMI.

## 7 Charging Aspects

The MExE specification enables MExE executables to potentially support charging for services. T2 MExE will liase with TSG-S5 for charging-related issues. Investigate possible security aspects of charging.

### 8 Security Aspects

This is a Security Item.

### 9 Impacts

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

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

Meeting	Date	Activity			
T2 MExE	13 <sup>th</sup> Feb 2001 Beverley	First security working group to define Terms of Reference, create a project			
	Hills	plan, determine the scope and structure of the TR to be created by the gro			
		commence discussion of initial input documents.			
S3#17	1st March, Göteborg,	Presentation of T2 MExE R5 activity to SA3			
	Sweden				
T2#15	29 November 2001,	Elected a new rapporteur.			
	Cancun, Mexico				
Additional activities to be defined by T2 MExE and updated appropriately.					
	Completion by <u>June</u>				
	2002 final date for				
	Release 5				

				New spe	cifi	cations		
Spec No.	pec No. Title			2ndary Presented for information at WG(s) plenary#		mation at	Approved at plenary#	Comments
TR??.?? ?	Technical Report for general availability		T2 SA3, <u>TS</u> SA5		TSC	SG T#16		
			Affe	cted existi	ng s	specificatio	ns	
Spec No.	CR	Subject				Approved at	plenary#	Comments
33.102		Security Archi	tecture		•	TSG T#16		Possible expanded scope and place of use for existing security features
<del>21.133</del> 33.900	·				<del>nts</del> ]	TSG T#16		Possibly expand to cover this WID's results
23.057	Mobile Execution Environment				TSG T#16		Possible CRs depending on result of threat analysis	

# 11 Work item raporteurs Ernest Woodward (Intel) Andrew Myers (BT) 12 Work item leadership T2 13 Supporting Companies Ericsson, HP, Intel, Motorola, Telia BT, Ericsson, Motorola, Siemens Mobile Phones, Vodafone

# 14 Classification of the WI (if known)

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