Source: **TSG-T**

Title: **New R00 work item descriptions approved at TSG-T #8**

Agenda item: **7.3.2**

Document for: **Information**

New TSG-T work items approved at TSG-T #8

This document contains eight new work items that were approved by TSG-T #08.

WG	TSG-T doc	Title	Release
T2	TP-000078	Multimedia Messaging Service (MMS) enhancements	release 2000
T2	TP-000079	3GPP vObjects	release 2000
T2	TP-000080	Terminal Local Model	release 2000
T2	TP-000117	MExE Enhancements	release 2000
T3	TP-000116	Addition of CPHS features	release 2000
T3	TP-000116	Enhancements to (U)SIM Toolkit Secure messaging	release 2000
T3	TP-000116	SIM toolkit interpreter protocol	release 2000
T3	TP-000116	Report on SIM/USIM interoperation	release 2000

3GPP TSG-T#8
Düsseldorf, Germany, 21-23 June 2000

Tdoc TP-000078

<u>Work Item Description</u>

Title: MMS Release 2000

1　　3GPP Work Area

	Radio Access
	Core Network
X	Services

2　　Linked work items

- *All-IP(SA2)*
- *Real-Time Multimedia (SA4)*
- *USIM (T3)*
- *S5.3Charging*
- *VHE / OSA (SA2)*

3　　Justification

The current version of 23.140 identifies areas that requires further elaboration and therefore the following items are planned to be included in the Release 2000 version of MMS.

4　　Objective

MMS Release 2000 targets the following areas :-

- To create a full description of the MMS architecture that will be able to support the range of currently envisaged MMS business models and implementation schemes, incorporating Internet messaging, Enterprise messaging, VHE, WAP based and IP based solutions and 2G messaging.

- Consider and accommodate the needs of an All-IP architecture

- Better definition of interworking issues (e.g. translation from/to email addresses and MSISDN numbers, mobile number portability, media format conversion).

- To support terminal interoperability, looking for the support of a minimum set of mandatory media types and formats for classes of devices and the definition of a capability negotiation mechanism.

- Extended User Agent capabilities (e.g. MExE / Java, voice based UA)

- Detail description of User Profile mechanisms

- Identification of required protocols and development if needed

- USIM and USAT aspects of MMS

- Security enhancements (e.g. VPN/IPSEC, End to End Security, terminal security)

- Further elaboration of charging

- External interfaces (e.g. AT commands)

- Enhanced Multi Media presentation (e.g. SMIL)

- Streaming (downloading and uploading messages)

- Instant messaging

The listed items shall enhance interoperability and shall be implemented in a way that will ensure backwards compatibility where possible.

5   Service Aspects

The MMS allow users to send and receive messages exploiting the whole array of media type available today, e.g. text, images, video, while also making it possible to support new content types as they become popular.

6   MMI-Aspects

- Content presentation

- Service activation

- Provisioning of the service

- Message handling

7   Charging Aspects

MMS should standardise charging mechanisms especially in roaming situations and between different operators. Other charging mechanisms (e.g. air time) may be needed when MMS Relay / Server are outside of the operator's domain. Liaison with TSG-S5 for charging issues is intended.

8   Security Aspects

Security enhancements (e.g. VPN/IPSEC, End to End Security, terminal security). Liaison with TSG-S3 for security issues is intended.

9   Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	Yes	Yes		Yes	Yes
No					
Don't know			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
22.140						
23.140					T#10	

11 Work item raporteurs

Gunnar Schmidt, Siemens

12 Work item leadership

TSG-T2

13 Supporting Companies

Nokia, Comverse, Motorola, Siemens, Telia, France Telecom, NTT DoCoMo, CMG, Mannesmann, Sonera, T-Mobil, Alcatel , Ericsson

14 Classification of the WI (if known)

X	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)

3GPP TSG-T#8
Düsseldorf, Germany, 21-23 June 2000

Tdoc TP-000079

<u>Work Item Description</u>

Title

vObjects and Other Constructs for Use in Data Synchronisation in Release 2000

1   3GPP Work Area

	Radio Access
	Core Network
X	Services

2   Linked work items

- *MExE (T2)*
- *USIM (T3)*
- *CAMEL (CN2)*
- *VHE / OSA (SA2)*
- *MultiMedia Messaging (T2)*
- *S5.3Charging*
- *Wide Area Network Synchronisation (T2)*

3   Justification

The request for data synchronisation support for the VHE MExE User Profile extensions brings up the long term need to define standards for and manage the process of adding new 'vObject's and Other Constructs as data store types for use in data synchronisation activities. The first instance of such an extension is in syncing VHE User Profiles between the terminal and other network and external data stores.

The support of the standardised user profile will ensure interoperability of the standardised service capabilities to support IP multimedia services as part of the VHE, and enable significantly enhanced 3G services to be created and to correctly interwork.

4   Objective

vObjects and Other Constructs for Use in Data Synchronisation in Release 2000 targets the following areas:

- To define new vObject and Other Constructs standardised formats for use in data synchronisation as required by other groups within TSG.

- To manage the process of publishing these new standardised formats for use within and external to TSG.

- To support terminal and network interoperability through the use of a standardised approach to the definition of these new formats.

- To extend the usefulness of the TSG-T2-defined data synchronisation architecture and mechanisms to new data store semantic content.

- Identification of required protocols and development if needed

The listed items shall enhance interoperability and shall be implemented in a way that will ensure backwards compatibility where possible.

5   Service Aspects

Standardised vObject and Other Construct formats will allow users and operators to keep local copies up to date with remotely stored copies of the user's and the operator's mission-critical data stores in a manner that will allow data synchronisation to a wide variety of potentially disparate data stores. These standardised formats will allow rapid expansion of the nature and type of future data store enhancements.

6   MMI-Aspects   [not applicable]

7   Charging Aspects

Data synchronisation of vObjects and Other Constructs should standardise charging mechanisms, especially in roaming situations and between different operators. Other charging mechanisms (e.g. air time) may be needed when data synchronization of vObjects and Other Constructs is attempted outside of the operator's domain. Liaison with TSG-S5 for charging issues is intended.

8   Security Aspects

Security enhancements (e.g. VPN/IPSEC, End to End Security). Liaison with TSG-S3 for security issues is intended.

9   Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	X	X		X	X
No					
Don't know			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
27.103						

11 Work item raporteurs

Rob Lockhart, Motorola

12 Work item leadership

TSG-T2 (SWG2)

13 Supporting Companies

Motorola, Ericsson, BT, Siemens

14 Classification of the WI (if known)

	Feature (go to 14a)
X	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

Data Synchronisation

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

3GPP TSG-T#8
Düsseldorf, Germany, 21-23 June 2000

Tdoc TP-000080

<u>Work Item Description</u>

Title: Terminal Local Model

1   3GPP Work Area

	Radio Access
	Core Network
X	Services

2   Linked work items

MExE, USAT, (work item from T3 on Bearer Independent Data Transfer), Data Synchronisation.

3   Justification

The present rapid development of a diversity of new applications and application environments for mobile usage creates a complexity of previously unseen proportions that the Mobile Equipment has to handle. We are allowing third party software to run in various parts of the UE and we need a general framework to ensure that the APIs we create for the different UE-based toolkits work in harmony with each other

4   Objective

This work item will introduce a generic model approach for the ME environment; the purpose is *not* to categorise the applications / peripherals, but to try to structure the events that are external to, and has to be handled by, the ME Core Functions. This means that the structure or grouping of the events should be made from a *ME centric* perspective. Some applications run on the ME side have counterparts in the network. This work item does not address the functions in the network.

5   Service Aspects

Service aspects will need to be in line with Service specifications from S1.

6   MMI-Aspects

MMI will need to be considered in terms of its interaction with ongoing resource allocation to other applications (e.g. data call set up by MExE can be cancelled by MMI)

7   Charging Aspects

None

8 Security Aspects

Security aspects of terminal local model will need to be analysed.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	X	X			
No					
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
23.227	Terminal Local Model	T2		TSG#9	TSG#10	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	

11 Work item rapporteurs

Carl Gustavsson, Ericsson

12 Work item leadership

T2

13 Supporting Companies

Nokia, Ericsson, BT, Siemens, Motorola, Alcatel

14 Classification of the WI (if known)

X	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

Terminal Local Model

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)

Title   MExE Release 2000

Evolving from the established MExE Release 1998 and Release 1999 specifications, the MExE Release 2000 work extends and develops the UE-based support of the client/server model to cover areas such as support of a new small footprint Java classmark, interaction and co-operation with SDR capabilities and definition of user profile support.

1   3GPP Work Area

	Radio Access
	Core Network
X	Services

2   Linked work items

Virtual Home Environment

SIM Application Toolkit

OSA

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. Recent developments in the support of a new small-footprint Java platform, and co-operation with the SDR Forum requires extension of the existing MExE specifications to update and incorporate these latest developments.   Further detailed work is also required to define the support of the user profile and other areas.

4   Objective

MExE Release 2000 targets the following areas:-

- Third MExE classmark (using the Sun CLDC and MIDP specifications)
- Enhanced security
- Support of terminal parts of the VHE / User Profile
- Investigate and identify support for IP multimedia services
- Investigate and identify secure download mechanisms and capabilities to support SDR concepts
- Investigate and identify support of AT commands
- Investigate and identify support of MP3/MPEG4 content
- Investigate and identify support of SIM toolkit / OSA / CAMEL interaction to provided advanced services

5   Service Aspects

MExE supports services via MExE executables in the UE

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-S5 for charging-related issues.

8 Security Aspects

MExE will liase with TSG-S3 to ensure support for any security-related changes and improvements which may be identified.

9 Impacts

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

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			SA#9 (Sept 2000)	
23.057			T#10 (Dec 2000)	

11 Work item raporteurs

Mark Cataldo (Motorola Limited)

12 Work item leadership

TSG-T2

13 Supporting Companies

Motorola, BT, Siemens, NTT DoCoMo, Bosch Telecom Denmark, Ericsson, NEC Technologies (UK) Ltd, Vodafone UK, Telia, Nokia, Philips, Mitsubishi, Alcatel

14 Classification of the WI (if known)

X	Feature
	Building Block
	Work Task

TSG WG3 - Work Item:
"Introduction of Features from the Common PCN Handset (CPHS) Specification."

Justification and scope

The Common PCN Handset Specification (CPHS), defines additional terminal and SIM functionality to the standard GSM specifications. The additional functionality enhances the services offered to the subscriber and includes features to both terminal and SIM. Several handset manufacturers have implemented the features; however, they remain outside the core GSM specifications. Since these features have proved useful, it is proposed to standardise them in 3GPP.

3GPP work area

TSG Terminals, WG3 (USIM).

Linked work items

UICC physical and logical characteristics

Service aspects

Functional requirements would be added to 3G TS 21.111.

MMI-aspects

The proposed features will introduce new MMI requirements to 3G TS ??.???.

Charging aspects

None.

Security Aspects

None

Impacts

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

Expected Output and Timescales

TSG adoption of WI   June 2000

Start of work   June 2000

First draft, reviewed by TSG-T   September 2000

Approval of report by TSG-T   December 2000

Work item rapporteur

One2One

Supporting companies

Orange, One2One. Motorola, Across

Primary responsible working party

3GPP TSG-T WG3

Secondary responsible working parties

3GPP TSG-T WG2

Others

None.

Work Item Description
Enhancement to (U)SIM toolkit Secure Messaging

Introduction

This work item specifies work proposed to be carried out to extend GSM03.48 for:

- Support of Public Key encryption / decryption / signing / validation.

- Support of additional bearers

- Addition of the ability to issue a 3GPP 31.111 style REFRESH command.

- Addition of the ability to initiate a SIM application.

1   3GPP Work Area
TSG Terminals WG3 and TSG Service Aspects WG3

2   Linked work items

  None

3   Justification

GSM03.48 describes a protocol for secure message exchange between the SIM and other elements. The release 99 version of this specification is however limited to secret key encryption / decryption and validation. Studies of the requirements for message security for mobile commerce have shown that there is a clear need to extend this protocol with the security processes required for Public Key Encryption.

GSM03.48 describes both a general case for secure message transfer and specific realisations of this general case for some GSM bearers. As SMG9 / T3 have added new bearer commands to GSM11.14 / 3GPP 31.,111, this work item should include a review of the implementation of GSM03.48 over the bearer commands currently not covered.

GSM03.48 describes a standard command set for SIM file access and modification however this is limited to commands specified in 3GPP 31.101. To bring this standardised command set in line with other proprietary file update protocols, this work item should include a review of, and an extension of, the command set specified to extend the ability to inform the ME and the user of file updates.

4   Objective

To revise GSM03.48 for

- Support of Public Key encryption / decryption / signing / validation.

- Support of additional bearers

- Addition of the ability to issue a 3GPP 31.111 style REFRESH command.

- Addition of the ability to initiate a SIM application.

5   Service Aspects

None

6   MMI-Aspects

None.

7   Charging Aspects

None

8   Security Aspects

This is an extension of a security protocol already specified in release 99.

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
None						
Affected existing specifications						
Spec No.	CR	Subject			Approved at plenary#	Comments

CR with updates for Release 00 to be presented at T3#15 for information.

CR with updates for Release 00 to be presented at T3#16 for approval.

11   Work item raporteurs

Daniel Erricson, Across Wireless

12   Work item leadership

Terminals WG3

13   Supporting Companies

Vodafone Airtouch, G&D, Across Wireless, Omnitel

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)

Work Item Description for

Protocol Standardisation of a SIM Toolkit Interpreter

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1   3GPP Work Area

Terminals WG3 (USIM)

2   Linked work items

3   Justification

This work item describes the development of a new specification(s) to standardise on protocols for SIM resident SIM Toolkit interpreters. Currently there are a collection of proprietary specifications which have varying degrees of service delivery and fraud resistance. Standardisation in this area will allow activities to be focused on developing a unified standard. It is envisioned that the work will be split in two parts, a bearer independent part and a bearer dependent part.

4   Objective

To design protocol specification(s) for the SIM - Server interface for a SIM Toolkit command interpreter.

5   Service Aspects

None. This is an addition of a SIM - server protocol specification.

6   MMI-Aspects

None. This is an addition of a SIM - server protocol specification.

7   Charging Aspects

None. This is an addition of a SIM - server protocol specification.

8   Security Aspects

None. This is an addition of a SIM - server protocol specification.

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)**

Definition of Specification structure(s)   3GPP T3#15

Draft Specification(s) for information   3GPP T3#16

Specification(s) issue   Release 00 (T Plenary December)

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

11   **Work item raporteurs**

Michael Meyer, G & D

12   **Work item leadership**

Terminals WG3

Terminals WG2 has secondary responsibility

13   **Supporting Companies**

Vodafone Airtouch, Across Wireless, Omnitel, Telenor, G&D, Gemplus, Schlumberger, Oberthur, BT-Cellnet, ORGA, Keycorp, One2One, Setec, LG.

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)

TSG WG3 - Work Item:
"Technical Report on GSM/3G SIM/USIM Interworking"

Justification and scope

3G specifications permit the presence of a GSM and a USIM application on a UICC simultaneously. Furthermore the USIM application may also provision GSM specific parameters in order for a multimode 3G/GSM terminal to access GSM radio network.

The co-existence of these two applications is not described in existing specifications, specifically regarding how information could be shared and linked. Also under which conditions which application is to be selected and which parameters are to be used, e.g. when being handed over to another radio access network technology within the USIM session.

It is proposed to produce clarifications concerning the usage of the different applications and the parameters.

This work item will result in an appropriate Technical Report.

3GPP work area

TSG Terminals, WG3 (USIM)

Linked work items

GSM / 3G Interworking

Service aspects

Service Requirements from TSG-SA WG1 shall be taken into account.

MMI-aspects

CRs will be proposed to T2 for the selection of an application.

Charging aspects

None.

Security Aspects

Security Requirements from TSG-SA WG3 shall be taken into account.

Impacts

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

Expected Output and Timescales

TSG adoption of WI	June 2000	
Start of work	June 2000	
First complete draft	August 2000	Version 1.0.0
WG approval	November 2000	Version 2.0.0
TSG approval	December 2000	Version 3.0.0

Work item rapporteur

Proposed rapporteur : Günter Maringer (T-Mobil)

Supporting companies

Gemplus, T-Mobil, Giesecke & Devrient, Ericsson

Primary responsible working party

3GPP TSG-T WG3

Secondary responsible working parties

T2.

Others

None.