Doc For	TSG SA	TSG CN	TSG RAN	TSG T
Decision				
Discussion				
Information	Х	Х	Х	Х

Agenda Item:

Source: SMG

Title: Draft UMTS 30.00 version 3.6.0 UMTS Work Programme

Document for: Information

Draft UMTS 30.00 version 3.6.0 contains already agreed SMG changes related to the UMTS Work Programme but the UMTS Work Programme version 3.6.0 has not been approved. This version has been sent for formal SMG approval by E-mail and it should be approved at 10 January 1999. The approved document shall be sent to you.

Please note that the document distributed to you does not show revision marks in order to improve readability of the document. The version with the revision mark will be available on the 3GPP server.

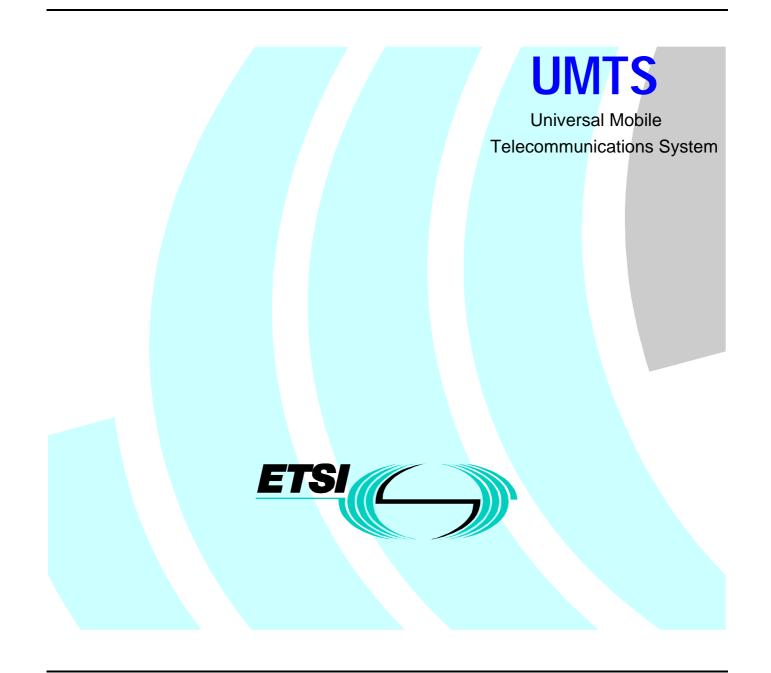
This contribution has been submitted to TSGs for information and can be used at the creation of the work programme for 3GPP.

Tdoc 98S691

Draft UMTS 30.00 V3.6.0 (1998-11)

Technical Specification

Universal Mobile Telecommunications System; SMG Work Programme for UMTS (Draft UMTS 30.00 version 3.6.0) To be Approved by E-mail after SMG#27



Reference

REPORT 02 JUNE 20 JUNE 1997 (rs001jo3.PDF)

Keywords

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1 Scope

The UMTS work programme describes the work items and specifications of UMTS. It is detailed for 1997 and will be elaborated for the years after 1997. The overall UMTS development plan is given in Table 1 and 2 of section 2.

This document is under direct responsibility of SMG; there is no prime responsible subgroup of SMG responsible for it. It is managed and edited by STF SMG and directly approved by SMG. It shows the updated SMG work programme for UMTS and will hence be typically updated after each SMG plenary, presented to SMG and all STCs for improvement, and interim versions will be created between and during SMG plenaries. For approval at SMG, a version with revision marks to the last approved version and a clean version (in electronic form) are presented.

1.1 Responsibility for UMTS standardisation

SMG is responsible in ETSI for:

- GSM evolution
- UMTS standardisation:
 - UMTS radio access definition,
 - UMTS services (with broad participation of other ETSI groups)
 - UMTS Core Network as evolved from GSM.

UMTS radio access definition is elaborated in the Project GRAN (...) within SMG.

UMTS Core Network as evolved from GSM is elaborated in the Project GSM-UMTS (...) within SMG. Specific responsibilities of each project are marked at each work item and each section covering deliverables.

NOTE 1: NA is responsible for ISDN-UMTS, the project of ISDN evolution towards UMTS.

NOTE 2: Some SMG5 documents that may be used as background material can be found on ETSI www; DOCBASE/Technical Organisation/smg/Document/smg5

2 Overview on the UMTS development

The focus of UMTS work for 1997 and overall schedule for the UMTS development are shown in figure 2.1/UMTS 30.00 and table 2.1/UMTS30.00.

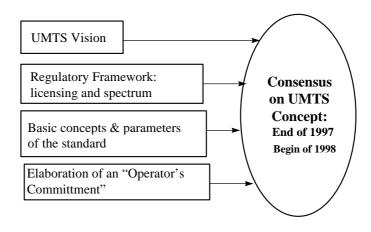


Figure 2.1/UMTS 30.00: Focus of the UMTS work for 1997/1998

Task Name	1996	199	7	199	8	1999	2000	2001	2002
GSM900 Phase 2+ implementation									
UMTS Vision									
Co-operative research: ACTS									
Regulation: framework									
(report UMTS Forum)									
Regulation:									
CEC, ECTRA, ERC decisions									
Regulation:									
national licence conditions									
Regulation: licence awards									
Operators' commitment: elaboration of draft									
Operators' commitment: signature									
ETSI: basic UMTS standards studies									
ETSI: freezing basic parameters of standard									
ETSI: UMTS Phase 1 standards									
Regulation: conformity assessment conditions									
Pre-operational trials									
UMTS Phase 1: commercial operation									

 Table 2.2/UMTS 30.00: Overall schedule for the UMTS Phase 1 development

3 UMTS work items

Editorial note: Responsibilities of projects and STCs especially SMG3 and SMG12 should be revised.

Work on UMTS is organised in a work item oriented way: Introduction of features, prepared by feasibility studies, accompanied by reports describing applications, typically on demand of customers. One work item will often touch several specifications. Also, the work item oriented working style helps concentrating on the necessary amount of specifications.

All details of the WI Work Item descriptions are to be provided by responsible STC and given in Annex A.

5

4 UMTS documents

In the following, three types of documents are distinguished:

- Specifications, containing normative and indicative parts defining and describing the UMTS system. These documents are under change control (see GSM/UMTS 01.00);
- Reports, describing essential facts, solutions and background material for UMTS. These documents are under change control (see GSM/UMTS 01.00);
- Position papers: there are two sub-kinds:
 - * position papers indicating (possibly controversial) positions identified in SMG during the UMTS definition process
 - * position papers describing positions approved by SMG.

These documents are under version control; new versions of the papers are produced in STF SMG after SMG plenaries, incorporating the decisions, and approved at the next plenary.

These UMTS documents will be subject to ETSI procedures like OAP etc. when and as found appropriate by SMG and will be classified in the ETSI schemes at the appropriate time.

NOTE: UMTS documents may have a permanent or transient structure. For example, requirement specifications may become obsolete when technical solutions have been fully specified; they could then, e.g., be replaced by reports describing the performance of the system, they could be deleted without replacement or be kept for historical reasons but turned into background material. When found necessary and appropriate, the transient or permanent nature of an UMTS document may be expressed in its scope. The three types of documents defined above do not directly correspond to a transient or permanent nature of an UMTS document.

4.1 General documents, responsibility of Project GSM - UMTS

Antun Samukic is responsible within PT SMG for these documents.

Identity and type (UMTS xx.xx)	TITLE	Prime/2nd resp. group in SMG	Rapporteur	Actual status For yet not approved document	Approval status: planned or approved
30.00 report	SMG - UMTS Work programme	SMG	Antun Samukic		app. v.3.6.0 after SMG#27 ¹⁾
30.01 position paper	UMTS Baseline document: Collection of the SMG's positions on the UMTS	SMG	Antun Samukic		app. v.3.30, SMG#26 ¹⁾
30.02 report	Experience from GSM standardisation to be applied at UMTS standardisation	SMG	NN		plan. v.3.0.0 when needed
30.05 report	UMTS terminology	SMG	NN		plan. v.3.0.0 when needed
30.20 report	Technical characteristics, capabilities and limitations of mobile satellite systems applicable to the UMTS	SMG	Juha Rapeli		app. v.3.1.0 SMG#24

1) Typically updated at each plenary

4.2 UMTS services, responsibility of Project GSM UMTS

Roger Tarazi is responsible within PT SMG for these documents.

Identity and type (UMTS xx.xx)	TITLE	Prime/2nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
22.01 specification	UMTS Service principles	SMG1	Paul Dwyer		appr. v. 3.3.0 SMG#27
22.05 specification	Services and service capabilities	SMG1	Emmanuel Puga Pereira		app. v.3.1.0 SMG#26
22.07 report	UMTS Terminal and Smart Card Concepts	SMG1 [SMG2 ,SMG9]	Tom Leskinen		app. v.3.0.0 SMG#25
22.10 specification	Service aspects of UMTS terminals and IC cards	SMG1 [SMG9]	Tom Leskinen		On Hold
22.15 specification	Service aspects: Charging and Billing	SMG1, [SMG10, SMG6]	David Chambers	v.1.2.2, SMG#25	
22.20 specification	Service management	SMG1, [SMG3, SMG6]	Paul Dwyer	v.0.0.3	on hold
22.24 report	Charging and Accounting Mechanism	SMG1, [SMG6]	David Chambers		app. v.3.0.0 SMG#25
22.25 report	Quality of service and network performance	SMG1, [SMG6]	Seppo Tianen		app. v.3.1.0 SMG#25
22.60 report	Mobile multimedia services including mobile Intranet and Internet services	SMG1, [SMG3]	Thomas Ahnberg		app. v.3.0.0 SMG#25
22.70 report	Virtual Home Environment	SMG1	Jumoke Ogunbekun		app. v. 3.0.0 SMG#25
22.71 report	Automatic establishment of roaming relations	SMG1, [SMG3]	David Chambers		app. v3.0.1 SMG#27
22.75 report	Advanced addressing	SMG1, [SMG3]	Stephan Kleier		app. V.3.0.0 SMG#27
22.80 report	UMTS relationship with other standards	SMG1 [SMG]	Bo Axerud	v.2.0.1 SMG#24	On hold
22.77 report	UMTS Service scenarios	SMG1, [SMG]	Jumoke Ogunbekun		plan. V.1.0.0 SMG#25
22.00 specification	UMTS phase 1 capabilities	SMG1	Emmanuel Puga Perreira	v 1.0.0 SMG#27	plan v.3.0.0 SMG#28

NOTE: The services specifications should be elaborated as "pilots"

4.3 UMTS radio aspects, responsibility of Horizontal Task UMTS GRAN

Paolo Usai is responsible within PT SMG for these documents.

Identity and type (UMTS xx.xx)	TITLE	Prime/2 nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
21.01 report	Overall requirements on the radio interface(s) of the UMTS	SMG2	Tim Mousley Simon Pike		app. V.3.0.0 SMG#22; v.3.0.1 published as TR101111 after SMG#23
30.03 report	Selection procedures for the choice of radio transmission technologies for the UMTS	SMG2	Patric Blanc		app. V.3.2.0 SMG#25
21.02 report	High level requirements relevant for the definition of the UMTS Terrestrial Radio Access UTRA concept	SMG2	Niels P. S. Andersen		app. V. 3.0.0 SMG#22; published as TR101112 after SMG#23
30.04 report	Definition of the limited number of UTRA concepts	SMG2	Niels P. S. Andersen		app. V.3.0.0 SMG#22
30.06 report	UTRA Concept Evaluation Reports	SMG2	Paolo Usai		app. V.3.0.0, SMG#24
25.01 specification	Description of the selected UTRA concept	SMG2	Niels P. S. Andersen		plan. v.3.0.0 SMG#26

A number of the documents belonging to the UTRA description has been identified:

Specification structure

To get all UTRA descriptions finalised during 1998, a detailed work plan for the UMTS documentation in SMG2 had been agreed. SMG2 had identified a number of documents for the description of UTRAN. Some of these documents are expert group internal documents, and some will be SMG2 deliverables for end 1998 ("The UTRAN description" documents). Below the identified documents are listed (with temporary document numbers). These descriptions will be used as the basis for the specification work during 1999. It is the plan that before the specification work start, the corresponding UTRA description should be under change request control. This implies that all descriptions must be approved and put under change request control during 1998. When a document is put under change request control, the changes are "per item" based.

UMTS-L1 Document	Document title
XX.01	UTRA layer 1 documentation plan
XX.02	UTRA physical layer - general description*
XX.03	UTRA FDD, Transport and physical channels description
XX.04	UTRA FDD, multiplexing, channel coding and interleaving
	description
XX.05	UTRA FDD, spreading and modulation description
XX.06	UTRA FDD, Radio transmission and reception description
XX.07	UTRA FDD, physical layer procedures description
XX.08	UTRA FDD : additional features and option description
XX.09	UTRA TDD : transport channels and physical channels description
XX.10	UTRA TDD, multiplexing, channel coding and interleaving
	description
XX.11	UTRA TDD, spreading and modulation description
XX.12	UTRA TDD, Radio transmission and reception description*
XX.13	UTRA TDD, Physical layer procedures description
XX.14	UTRA TDD, additional features description*
XX.15	UTRA handover
XX.16	UTRA inter operability description
XX.17	System scenarios
XX.18	UMTS layer 1 documentation status and study items
XX.19	UTRA Link level simulations results*
XX.20	Collection of UTRA system level simulation results
XX.21	UTRA MS capability*

	Title	Scope
YY.01	MS-UTRAN Radio Interface	This document contains :
	Protocol Architecture	1. a layered view of the radio interface
		1. the services of each (sub-)layer, with service primitives
		1. the functions of each (sub-)layer and functions of corresponding
		protocol 1. the termination point of protocol entities
YY.02	Layer 1 : general requirements and	This document contains :
	services	1. services of the physical layer
		1. interfaces to the physical layer (primitives)
		1. description of transport channels
		1. performance requirements
YY.03	Description of procedures in RRC	This document contains the principles and procedures for the RRC
	connected mode	connected mode
YY.04	Description of procedures in idle	This document contains the principles of the MS behaviour and procedures
	mode	when in idle mode.
YY.31	Description of RRC protocol	See definition of « description document »
YY.22	Description of RLC protocol	See definition of « description document »
YY.21	Description of MAC protocol	See definition of « description document »

	Document	Editor
	Work Plan, SMG2 UMTS-ARC	Chairman
ZZ.01	UTRAN Architecture Description	Nortel / Jean-Marie Calmel
ZZ.02	UTRAN Functions: Examples on Signalling Procedures	CSELT / Flavio Piolini
	Requirements Relevant for UTRAN Architecture	Ericsson / Björn Ehrstedt
	Manifestations of Handover and Streamlining	BT / Richard Townend
ZZ11	Description of lu interface	Nokia / Atte Länsisalmi
ZZ.12	Description of lur interface	Ericsson / Björn Ehrstedt
ZZ.13	Description of lub interface	Lucent / Urs Bernhard

4.4 UMTS network aspects, responsibility of Project GSM-UMTS

Antun Samukic is responsible within PT SMG for these documents.

Editorial note: Responsibilities of SMG12 and SMG3 should be clarified.

Identity and type (UMTS xx.xx)		Prime/2nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
23.01 specification	General UMTS architecture	SMG12	Magnus Ohlsson	v 1.0.0 at SMG#27	to be approved at SMG#28
23.05 specification	UMTS Network principles	SMG12	Alain Sultan	0.10.0 1997-09	On hold
23.10 specification	UMTS Access Stratum - services and functions	SMG12 [SMG2]	Oscar Torez Lopez	v 1.0.0 at SMG#27	completion for 12/98
23.20 report	Evolution of the GSM platform towards UMTS	SMG12 [SMG1]	André Jarvis	v 1.0.0 at SMG#27	completion for 12/98
23.30 report	Principles for the lu Interface	SMG12	Bo Axerud	v 0.4.0 98-11	To be approved v.3.0.0, SMG#28
23.60 report	Framework of network functions to support multimedia services in UMTS	SMG12 [SMG4, SMG1]	Axel Gabe		on hold
23.xx specification	GSM/UMTS Core Network Architecture	SMG12		0.0.0 1997-09	To be started after UMTS 23.20 approval
27.00 report	Principles for handling of data services in the UMTS	SMG12 [SMG4]	Axel Gabe		on hold

4.5 UMTS network management aspects, responsibility of Project GSM-UMTS

Michael Sanders is responsible within PT SMG for these documents.

Editorial note: Should UMTS 32.01 be part of this Work programme?

Identity and type (UMTS xx.xx)	TITLE	Prime/2nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
21.06 report	O&M requirements for the UMTS	SMG6	Bill Szelazek		appr. v.3.0.0 SMG#25
32.01 report	Overall principles of the OAM for the UMTS	TC TMN	NN		transferred to TC TMN

4.6 UMTS security aspects, responsibility of Project GSM-UMTS

Peter van de Arend is responsible within PT SMG for these documents.

Identity anf type (UMTS xx.xx)	TITLE	Prime/2 nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
33.20 report	Security principles for the UMTS	SMG10	Colin Blanchard		app. V 3.1.0 SMG#27
33.21 specificati on	Security Requirement Specification	SMG10	Peter Howard	v 1.0.0 at SMG#27	to be approv. SMG#28version 1.0.0 at SMG10, July 98
33.22 specificati on	UMTS Security features	SMG10	Stefan Peutz Michael Walker		to be appr. at SMG#30
33.23 specificati on	UMTS Security Mechanism	SMG10	Bart Vinck Siemens ATEA		to be appr. at SMG#30

4.7 UMTS Satellite aspects

Subcontracting agreement between SMG and EP SES is under preparation.

Note: TR 30.20 related to satellite is approved (see chapter 4.1)

4.8 UMTS card aspects, responsibility of Project GSM -UMTS

Michael Sanders is responsible within PT SMG for these documents.

Identity and type (UMTS xx.xx)	TITLE	Prime/2 nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
21.11 report	UICC and USI Requirements	SMG9 [SMG1]	Guenter Maringer	v. 0.2.0 at 98-10	plan. V.1.0.0 SMG#28
31.01 specification	UICC/ME interface specification; Physical and electrical layer	SMG9	Guenter Maringer		plan v1.0.0 SMG#29
31.02 xx.xx specification	UICCUSIM/ME interface specification; Application layuer	SMG9	Guenter Maringer		plan v1.0.0 SMG#29

4.9 UMTS Data services, responsibility of Project GSM -UMTS

Friedhel Rodermund is responsible within PT SMG for these documents.

Identity (UMTS xx.xx)	Туре	TITLE	Prime/2 nd resp. group in SMG	Rapporteur	Actual status for yet not approved document	Approval status: planned or approved
21.04			SMG4 [SMG1]	Kevin Holley		plan. V.1.0.0 SMG#27

Annex A: Work Item descriptions

A.2 Service Continuity and Provision of VHE via GSM/UMTS

Editorial note: The structure of WI description should be revised and eventually modified by STC SMG12.

A.2.1 Service Continuity and Provision of VHE via GSM/UMTS

A.2.1.1SMG project - one and only one cross is requested

	UMTS Radio Access	
	GSM Radio Access	
х	GSM-UMTS Core Network	
	UMTS Services	

A.2.1.2Linked work items

CAMEL Phase 3, Mobile Station Execution Environment, UMTS

A.2.1.3 Justification

SMG#22 agreed that handover between UMTS and GSM (in both directions) should be supported since UMTS cells are expected to be smaller than those of GSM. This implies continuous/seamless service provision via GSM and UMTS with the end user being aware only of slower response times in certain environments (e.g. due to lower bit rates being available via the GSM environment). It also implies that the Virtual Home Environment, which aims to provide the user with the same services in the same way wherever he/she roams, should be provided via GSM as well as UMTS. It is expected that work will progress via a feasibility study followed by appropriate changes to GSM specifications and the introduction of a number of new requirements into UMTS specifications.

A.2.2 Service Aspects

The following is a preliminary list of key issues that should be studied -

What services could or should be subject to handover between GSM and UMTS?

Should GSM services be supported via UMTS and in what form? Does everything in GSM have to be supported by UMTS? Is it possible to identify areas that need not be supported by UMTS? Should we develop features in GSM that might not be relevant in UMTS?

What services could adapt to differing bit rates provided via GSM and UMTS possibilities of inter operator handover (GSM and UMTS provided via different operators)

What are the handover criteria [service aspects?]

Would we handover for capacity reasons (e.g. service can be supported on UMTS cell and GSM cell becoming congested)

To what extent should the service capabilities of UMTS be limited by evolution from GSM

A.2.3 Network Aspects

Should the UMTS requirements be stated totally disregarding GSM evolution issues? This might imply a large set of services/features that might not be supported on an evolved GSM air interface?

What are the possibilities for having a shared subscriber/user data base (common data dase?)

What are the possibilities for shared service creation and service management

What are the possibilities for shared PSTN/ISDN and Internet interworking functions

What are the possibilities for VHE in GSM

The elimination of unnecessary signalling due to handover attempts with respect to services that can't be supported on the "handed over to" environment should be studied.

A.2.5 Automatic Establishment of Roaming Agreements

Should the standard cover automatic establishment of roaming agreements between GSM service providers?

Should the standard cover automatic establishment of roaming agreements between GSM service providers and UMTS service providers (private and public)?

A.2.6 MMI-Aspects

To what extent can the same can the same look and feel to service provision be maintained in the context of smart card roaming (i.e. when the user takes his/her smart card out of one terminal and inserts it into another)?

To what extent can the service provider customise the MMI and have it maintained across GSM and UMTS?

A.2.7 Charging Aspects

The exchange of call records to facilitate billing should be studied.

A.2.8 Security Aspects

what are the security implications of the VHE and supporting automatic roaming relationships, handover etc. across GSM and UMTS?

A.2.9 Impacts

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

A.2.10 Expected Output and Timescales (to be updated at each plenary)

				New spec	ifications		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	approved at SMG#	Comments
	Report		SMG1	SMG3	SMG#27	SMG#29	other reports/specifications will follow
Affected e Spec No.		ecifications Subject			Approved a	t SMG#	Comments

It is expected that the work item could have far reaching implications on the development of UMTS and the future evolution of GSM. A possible course of action would be to plan for future work items to be applicable to both GSM and UMTS and to plan for SMG to develop a common core to support both GSM and UMTS air interfaces and to support UMTS features via the GSM air interface.

GSM and UMTS specifications will be affected.

A.2.11 Work item rapporteurs

Derek Richards, Lucent Technolgies (SMG1 UMTS chairman)

A.2.12 Supporting Companies

It is assumed that all GSM operators and manufacturers will support this new work item since it is consistent with the decisions of TC SMG (i.e. SMG#22).

A.2.13 Responsible STC(s)

SMG1 in close co-operation with SMG3. Joint activities involving SMG1 and SMG3 SA will be needed.

x Advanced Addressing

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x.2 Linked work items

Internet/Intranet Access - related but independent

x.3 Justification

Today's GSM primarily uses the traditional ISDN numbering approach for addressing call destinations. In the third generation, with its increased interest in email, Internet etc., a more flexible approach to addressing is required.

x.4 Service Aspects

In addition to present numbering schemes, addressing may be based on an alpha-numeric basis, either in place of a traditional number (as with CNAP) or in the style of the Internet. This may also be extended so as not to exclude other approaches, based on database checking, and also for terminal as well as user/subscriber addressing. This Work item is applicable to both GSM and UMTS.

x.5 MMI-Aspects

Numbering and addressing is an MMI topic.

x.6 Charging Aspects

None identified.

x.7 Security Aspects

No security aspects identified, although there may be Privacy issues to be considered.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

Output to be part of Release 99 for GSM and UMTS

[This section either consists in a reference to another TC-TR, or it has the following contents:]

			1	vew spec	cifica	tions		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#		approved at SMG#	Comments
Affected	existing sp	ecifications						
Spec No.	CR	Subject				Approved	at SMG#	Comments

< optional supplementary text, e.g. other documents to be produced >

Note: Even some GSM specifications might be affected.

x.10 Work item rapporteurs

< list of one or more persons/companies > -- mandatory

x.11 Supporting companies

< SMG members supporting the work item> -- mandatory

x.12 Responsible STC(s)

Prime responsibility SMG1

Secondarily responsible STCs and their responsibilities, SMG3 and 9

x.13 Others

None identified

x Automatic Establishment of Roaming Relations

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x.2 Linked work items

none identified

x.3 Justification

Today, roaming between GSM network operators is established by bilateral agreement, although generally in accordance with technical and commercial guidelines agreed by the GSM MoU. With the increasing number of GSM operators, this has become a cumbersome arrangement and indeed roaming is no possible through clearing houses, although this has no impact on the GSM standard.

In UMTS, the Role Model identifies the Service Provider as being responsible for establishing roaming relations with the serving network, although with the inclusion of fixed and cordless as well as cellular and satellite networks, the number of possible relationships becomes extremely large. An alternative approach is required.

x.4 Service Aspects

In addition to the roaming relationships available today and described above, the possibility for networks to establish a roaming relationship, including on a per session basis, needs to be developed. This is expected to be via the services of a third party, eg a clearing house, but might allow the decision on whether to proceed to be based not only on security and ability to pay, but possibly also on other factors such as the class of serving network and its ability to support the requested services. This Work item is applicable to both GSM and UMTS.

x.5 MMI-Aspects

None identified except to notify the user of the status and possibly to have the opportunity to accept or reject the terms and conditions of an automatic agreement.

x.6 Charging Aspects

Charging principles and accounting when roaming are important issues relating to the work item, but are expected to be primarily the responsibility of the GSM MoU. Advice of Charge may need to be offered.

x.7 Security Aspects

This feature must be applied in a secure manner, possibly with impact on authentication.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

Output to be part of Release 99 for GSM and UMTS

[This section either consists in a reference to another TC-TR, or it has the following contents:]

			1	New spec	cifications		
Spec No.	Title		rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	approved at SMG#	Comments
Affected e	xisting sp	ecifications					
Spec No.	CR	Subject			Approved	at SMG#	Comments

< optional supplementary text, e.g. other documents to be produced >

Note: Even some GSM specifications might be affected.

x.10 Work item rapporteurs

< list of one or more persons/companies > -- mandatory

x.11 Supporting companies

< SMG members supporting the work item> -- mandatory

x.12 Responsible STC(s)

Prime responsibility SMG1

Secondarily responsible STCs and their responsibilities, SMG3 and 10

x.13 Others

None identified

x ETE UMTS QoS Management

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
х	UMTS Services

x.2 Linked work items

Bearer Service Negotiation and Teleservice

UTRAN Bearer Capabilities

QoS Support in GPRS for UMTS phase 1

x.3 Justification

UMTS TS 22.05 « Services and Service Capabilities » identifies the service capabilities provided by UMTS which allow the creation of new and innovative applications. These building blocks are the teleservices, the bearer services and the service features There already exist work items to define the set up of both UTRAN and UMTS Core Network (UCN) bearer communication paths to meet this requirement. However, there is currently no work item to address the service control for both circuit switched and packet switched services within an operator network and the external PDN or PSTN/ISDN in order to provide End to End (ETE) QoS. What is required is a QoS mechanism or set of QoS mechanisms between the end users engaging the UMTS core and UTRAN networks for communication.

Currently established work items propose to define an API and control protocols that will provide connection set-up, negotiation and re-negotiation of tele and bearer services. This work item proposes that controls for the provision of ETE QoS for UMTS be developed within the UMTS core network which can interwork with the API and control protocols to be developed for bearer services in UMTS.

This work item is a UMTS phase 1 work item.

x.4 Service Aspects

This work item proposes the creation of UMTS core network controls and protocols(where necessary) for the provision of ETE QoS for UMTS. The controls and protocols will operate across both circuit and packet oriented transports and meet QoS profile definitions ranging from best effort messaging to real time applications. The controls and protocols shall be compatible with whatever the UTRAN supports in terms of MM features (handover) for each release. The work should include:

- · definition of the principles of operation of QoS controls and protocols for UMTS
- definition of the required controls, protocols and interworking with existing QoS and bearer schemes where necessary
- support of or interworking with established QoS schemes in the networks that UMTS connects with
- · minimal impact on existing GSM and GPRS standards
- · definition of any dedicated signalling channels for the purposes of UMTS QoS support

x.5 MMI-Aspects

None identified.

x.6 Charging Aspects

The charging aspects are covered in the UMTS Charging & Billing work item.

x.7 Security Aspects

All the authentication procedures must have been followed before the mobile can request and negotiate a tele or bearer service for the support of QoS control signalling or the resulting user service. It is assumed that Network Elements supporting any type of QoS control have been authenticated.

Where a mobile has subscribed for a limited set of service capabilities (QoS, bearer) the UMTS core network must ensure that the mobile is authenticated to use the requested resources before service is granted.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

For release 1999:

The work item proposes the output deliverable of a formal ETR on the treatment of ETE QoS for UMTS.

The report should include:

- a definition of common terms to be used
- a definition of the principles
- a description of the QoS architecture framework to be used for specification of UMTS ETE QoS issues
- a definition of the parameters and classes to be considered across the architecture
- a definition of the controls required
- a definition of the functions to be provided across the architecture

It is assumed that this work item will be progressed in close association with the work item 'QoS support for GPRS in UMTS' in order to satisfy the ETE QoS principles specified for UMTS, whilst building on the principles of GPRS QoS controls and protocols, where possible.

x.10 Work item rapporteurs

Proposed: Lucent Technologies

x.11 Supporting companies

Lucent, Iridium, Fujitsu, FT

x.12 Responsible STC(s)

Prime: SMG12 & SMG3

Secondary: SMG1, SMG2, SMG4

x.13 Others

Ax IP-in-IP tunneling in GPRS backbone for UMTS phase 1

This work item will prepare a technical report studying the feasibility of using IP-in-IP tunneling instead of GTP in the GPRS backbone. The report will include issues on performance, security, etc. as well as suggestions for changes to the Gn interface.

Ax.1 SMG Work Area- one and only one cross is requested

	UMTS Radio Access						
	GSM Radio Access						
Х	GSM-UMTS Core Network						
	UMTS Services						

Ax. 2 Linked work items

GPRS Mobile IP Interworking (R98) (related in the sense that it improves performance of IP services)

Ax. 3 Justification

The UMTS core network has been identified to evolve from the GSM core network. A working assumption within SMG12 is that the GPRS CN should evolve to provide the support needed for UMTS packet data services.

In the GPRS backbone, user data packets are transported between GSN's by GTP, which, in turn, is transported on top of UDP/TCP and an IP layer. Also signaling data is transported by GTP.

IP services are expected to be the most common type of packet data services, which is a reason to look into more optimal solutions for transporting these packets through the GPRS backbone.

By eliminating the GTP and UDP layers, i.e. to use standard IETF IP-in-IP tunneling, the overhead could be decreased. In addition, such a solution has the potential to decrease the time-to-market for new types of IP services, since standard IP solutions can be used without a separate standardization procedure for GPRS/UMTS.

It is assumed that GTP will still be used for transporting X.25 user data.

This work item addresses the changes needed at the Gn interface in order to enable the user IP datagrams and signaling messages to be transported directly on the underlying IP layer in the GPRS backbone.

Ax.4 Service Aspects

One aim is to optimize the transport of user IP datagrams, which should improve performance for IP based services.

Ax.5 MMI-Aspects

None

Ax.6 Charging Aspects

To be identified.

Ax.7 Security Aspects

An initial assumption is that IP-in-IP tunneling offers the same level of security as the GTP protocol.

Ax.8 Impacts

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

Ax.9 Expected Output and Timescales (to be updated at each plenary) -- best possible information requested

Timescale:

Approval of the WI:	SMG#27, October 1998
Start of Work:	Immediately (August 1998)
Scope:	September 1998
First draft.	November 1998

Approval of the deliverable by STC: early 1999

Approval of the deliverables by the TC: early 1999

Output:

An ETSI Technical Report as stated in section Ax.

[This section either consists in a reference to another TC-TR, or it has the following contents:]

			1	New spe	cifications		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	approved at SMG#	Comments
Affected e	existing sp	ecifications					
Spec No.	CR	Subject			Approved	at SMG#	Comments

< optional supplementary text, e.g. other documents to be produced >

Note: Some GSM specifications might be affected.

Ax.10 Work item rapporteurs

Andrea Calvi(Error! Bookmark not defined.) and Antonella Napolitano(Antonella.Napolitano@cselt.it), CSELT

Ax.11 Work item leadership

SMG12

Ax.12 Supporting companies

CSELT, KPN, Lucent, Nortel, Swisscom, Telia

Ax.13 Others

Ax Combined GSM and MobileIP Handling in UMTS IP CN, phase 1 and 2

This WI will prepare a technical report studying the feasibility of evolving the GPRS backbone for UMTS to use more standard IP solutions. An initial assumption is a scenario with a combination of GSM/GPRS mobility management and Mobile IP.

The output of this study will contain

- · Identification of the requirements for supporting IP services and network interconnect in UMTS.
- A UMTS CN architecture based on components from GSM/GPRS as well as IP and Mobile IP (IPv4 and IPv6).
- A comparison of such an architecture with the current GPRS backbone architecture regarding performance, security, alignment with fixed IP networks and services etc.
- An analysis of the dependence of the development in IETF.

A discussion on the compatibility with earlier phases of GPRS

Ax.1 SMG Work Area- one and only one cross is requested

	UMTS Radio Access						
	GSM Radio Access						
Х	GSM-UMTS Core Network						
	UMTS Services						

Ax. 2 Linked work items

GPRS Mobile IP Interworking (R98), UMTS Mobility Management

Ax. 3 Justification

The UMTS core network has been identified to evolve from the GSM core network. Further it is envisaged that the basis for mobility handling in a UMTS network will rely on the mobility services already provided by GSM2+ and on possible expansions of these. For providing IP services, an evolved GPRS architecture could be deployed. However, due to recent increased popularity in IP technology, there is some concern that the current GPRS structure might not be the optimal one for UMTS. Therefore it is of importance to study how UMTS could be better aligned with future development of IP networks, while reusing as much as possible of the already existing GSM infrastructure.

In order to provide roaming, and possibly handover, between radio access networks, the use of Mobile IP as a complement to GSM/GPRS mobility handling should be investigated. In a combination scenario, where an IP network is used in the core network, Mobile IP could be used to handle discrete mobility between access networks, i.e. roaming(and perhaps handover) between radio access networks (UTRANs), while GSM/GPRS could be used for handling subscriber data, charging mechanisms, security issues, etc., The GPRS SGSN node - enhanced with some IP functionality - could be used for mechanisms such as authorization and handling of encryption keys.

This work item addresses a study on the enhancements needed to enable combined use of mobility handling systems, i.e. adoptions in terms of interfaces and functionality needed in the mobile terminal and in GSNs, as well as the combined use of home agents (HA) and HLRs.

Ax.4 Service Aspects

This work item aims at studying roaming, including handover, between UTRANs and to provide and facilitate direct Internet and intranet access from the mobile terminal.

Ax.5 MMI-Aspects

To be identified

Ax.6 Charging Aspects

The use of GPRS charging mechanisms in an IP environment will be addressed.

Ax.7 Security Aspects

Security issues related to the use of IPsec will be included in the study.

Ax.8 Impacts

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

Support for Mobile-IP required also in mobile entity.

Ax.9 Expected Output and Timescales (to be updated at each plenary) -- best possible information requested

Timescale:

Approval of the WI:	SMG#27, October 1998
Start of Work:	Immediately (August 1998)
Scope:	September 1998
First draft.	November 1998
(end point to be aligned wit	h the time scale for evaluating the different evolution scenarios in 23.20)
Approval of the deliverable	by STC: early 1999
Approval of the deliverable	by TC: early 1999

Output:

An ETSI Technical Report as stated in section Ax.

[This section either consists in a reference to another TC-TR, or it has the following contents:]

			١	lew speci	fica	tions		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#		approved at SMG#	Comments
Affected e	xisting specifi	cations						
Spec No.	CR	Subject				Approved a	t SMG#	Comments

< optional supplementary text, e.g. other documents to be produced >

Note: Some GSM specifications might be affected.

Ax.10 Work item rapporteurs

Elisabeth Hubbard (Elisabeth.a.Hubbard@telia.se), Telia

Ax.11 Work item leadership

SMG12

Ax.12 Supporting companies

CSELT, Lucent, Nortel, Telia

Ax.13 Others

Ax UMTS CORE NETWORK BASED ON ATM TRANSPORT

This work item will prepare a technical report describing the implementation of a UMTS Core Network based on ATM technology and will include a study into the advantages and drawbacks of the usage of ATM as a UMTS Core Network transport mechanism. The result of the investigation shall show whether the usage of ATM in conjunction with the ATM adaptation layers on the Iu interface and inside the core network domain will satisfy the phased UMTS requirements including support for:

- Circuit switched traffic (Connection Oriented with guaranteed QoS)
- Packet switch Traffic (Connection Oriented with guaranteed QoS and Connectionless with best effort QoS)
- Flexible bandwidth services for all types of UTRAN deployments.
- A wide range of user QoS requirements and traffic profiles
- Real time, non real time and adaptive flow control services
- Negotiation of service provision dependent on network radio and terminal capabilities

The result of this work item will be a Technical Report, which will build on these activities and describe:

- A study on the advantages and drawbacks of using ATM as an integrated UMTS Core Network transport mechanism on the Iu-interface and inside the core network domain.
- The impact on the SMG standardisation activities in the use of ATM as a UMTS Core Network transport mechanism

Ax.1SMG Work Area

	UMTS Radio Access						
	GSM Radio Access						
Х	GSM-UMTS Core Network						
	UMTS Services						
Δ	Arr 2. Linked work items						

Ax. 2 Linked work items

To be defined

Ax. 3 Justification

The UMTS Radio Interface will enable a wide range of services to be offered to the users, through a range of innovative user equipment, including variable bandwidth sessions, multi-media, multiple simultaneous calls demanding higher bandwidths, greater flexibility and a mixture of channels with different QoS requirements. In order to support these capabilities it is clear that the UMTS core network should have a similar level of functionality as the UMTS access network.

Increasing communications demands either through expansion of the services or through increased user uptake of existing services will result in an operator's need to upgrade their existing core networks. To facilitate this a well-defined Iu interface is essential to ensure future compatibility for supporting the wide range of UMTS services. Considering the opportunities offered by ATM it is appropriate to investigate the advantages and drawbacks of an UMTS Core Network based on ATM.

Broadband standardisation activities in the ITU and the ATM Forum have progressed ATM technology to address these requirements.

Ax.4Service Aspects

The UMTS Core Network will provide a basis for extending the service capabilities of the existing core networks. **Ax.5MMI-Aspects**

Not relevant Ax.6Charging Aspects

Potential liaison on ATM Charging aspects with the ATM Forum. $\overline{}$

Ax.7Security Aspects

Not relevant

Ax.8Impacts

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

Ax.9 Expected Output and Timescales (to be updated at each plenary)

- Approval of the WI; Sept 1998 (STC), October (SMG#27)
- Start of work; Sept 1998
- Scope and first draft; Jan 1999 (SMG#28)
- Approval of the deliverables by STC; August 1999
- Approval of the deliverables by TC; October 1999 (SMG#30)

			Ne	w speci	fications		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	approved at SMG#	Comments
	Investigation of a UMTS CN SMG12 SMG2 SMG Based on ATM		SMG#27	SMG#30	Technical Report		
Affected of	existing spec	cifications			1	1	
Spec No.	CR	Subject			Approved	at SMG#	Comments
23.30	23.30 Iu Principles (to		be clarifie	d)			

Ax.10 Work item rapporteurs

Mick Wilson, Adel Rouz -Fujitsu

Ax.11 Work item leadership

SMG12

Ax.12 Supporting companies

Fujitsu, Lucent, NEC, NTT DoCoMo, Vodafone, KPN, T-Mobil, Alcatel, TIM, Telecom Modus, CSELT **Ax.13 Others**

x UMTS Open Service Architecture

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
х	GSM-UMTS Core Network
х	UMTS Services

x.2 Linked work items

- 1) CAMEL Phase 3 (no. 213)
- 2) SIM Application Toolkit (no. 85 and possible evolutions).
- 3) MS Application Execution Environment (MExE) (no. 198).
- 4) Service Continuity and Provision of VHE via GSM/UMTS (no. 210).

x.3 Justification

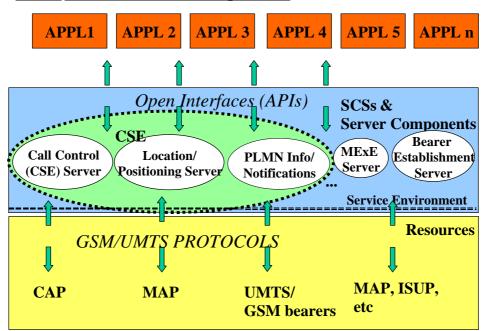
In 3^{rd} generation mobile systems like UMTS the intention is not to standardize any new services (except for existing GSM services up to phase 2+). Instead services and applications will be built up using so called **service capabilities**.

In order to achieve the above an open service architecture is vital.

For this purpose, open interfaces (APIs), based on distributed object techniques like CORBA should be used, with PLMN specific protocols hidden for the service/application designers.

Service Providers (SPs), Value-Added Service Providers (VASPs) or 3rd party developers on behalf of SPs or VASPs can use the open interfaces for service/application design.

The right to access and use service capabilities is reckoned to be a driver for boosting application development for 3^{rd} generation systems.



<u>UMTS</u> standardised Service Capabilities

The Service Capability Servers reflect the service capabilities in UMTS phase1, i.e. access to bearers, CAMEL, MExE and SIM-Toolkit. The functionality of these can further be subdivided into server components dedicated to specific tasks.

A service capability server consists of one or several server components. Taking CAMEL Services as an example, the server components could be Call Control, Location/Positioning, PLMN Information & Notifications. Each of these server components offers its services via defined open interfaces, and implements these by using GSM/UMTS protocols. Note that it is not foreseen to change the GSM/UMTS protocols, but in isolated cases it might be needed to do so.

This work item is a UMTS phase 1 work item.

x.4 Service Aspects

This work item proposes to define: Definition of Service Capability Server Components.

- 1) The Functionality provided by the Service Capability Server Components.
- 2) The open interfaces to the Service Capability Server Components.
- 3) System Management for the Application to Service Capability Server Components interworking.
- 4) Security related issues.

x.5 MMI-Aspects

None identified.

x.6 Charging Aspects

The charging aspects are covered in the UMTS Charging & Billing work item.

x.7 Security Aspects

Authentication of applications connected to service capability server components is required.

x.8 Impacts

Affects:	USIM	ME	NW	Others
Yes				The Home Environment of the Service Provider.
No				
Don't know	х	x	х	

x.9 Expected Output and Timescales (to be updated at each plenary)

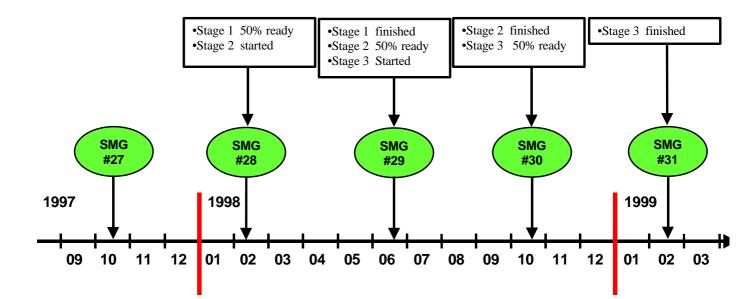
x.9.1 Expected Output

Stage1 description

Stage2 description

Stage3 description

x.9 Timescales



x.10 Work item rapporteurs

Rob Schmersel (Ericsson)

x.11 Supporting companies

Ericsson, Lucent, FT, KPN

x.12 Responsible STC(s)

Prime : SMG12

Secondary : SMG4 (??)

x.13 Others

WI on Support of non-realtime Multimedia Messaging Service

Title: WI on Support of non-realtime Multimedia Messaging Service

x Support of non-realtime Multimedia Messaging Service

x.1 SMG Project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x.2 Linked work items

WI on Multimedia in UMTS and on Numbering and Addressing

x.3 Justification

SMS has been very successful and popular in the GSM era. Noting this messaging type of service, evolving from the existing SMS to non-realtime Multimedia Messaging Service, has been identified as being important for UMTS. Multimedia messaging is understood to mean non-realtime transfer of images, audio/video clips and other binary information in a store-and-forward fashion. The message could be delivered to the recipient immediately if the user is attached to the network, otherwise delivered by the network to the user when available.

x.4 Service Aspects

Multimedia Messaging service should not be a new bearer service, but a new messaging feature which uses the generic bearer services of the UMTS.

It should be possible to use different addressing formats to identify the recipient (UMTS 22.05 Address Translation Feature).

The Multimedia Messaging service should allow different generic UMTS bearer services.

The Multimedia Messaging service should be able to support a notification mechanism to the MS.

The Multimedia Messaging service should be able to be automatically informed when the MS becomes reachable.

x.5 MMI-Aspects

No applicable MMI aspects.

x.6 Charging Aspects

The Multimedia Messaging service needs a standardized charging mechanism, so that it shall be possible to charge for the usage of the service.

x.7 Security Aspects

Nothing identified.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

	New specifications								
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	Presented for information at SMG#	Approved at SMG#	Comments		
Affected e	Affected existing specifications								
Spec No. CR Subject				Approved	at SMG#	Comments			

x.10 Work item rapporteurs

x.11 Supporting companies

Nokia, Ericsson, Motorola, Bosch

x.12 Responsible STC(s)

Prime: SMG 4

Secondary: SMG 1, SMG11, SMG12

x.13 Others

13.2 WI on Multimedia in UMTS

x Multimedia in UMTS

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x.2 Linked work items

WI on Multimedia Messaging and on Numbering and Addressing

x.3 Justification

To realize the SMG1 requirement for multimedia services in UMTS (Ref 22.60). An objective is to enable/stimulate the mass market for multimedia. This WI will examine the issues related to the support of multimedia in UMTS. This WI will examine how existing multimedia standards (such as H.323, H.324, H.324M, and others) can be supported in UMTS.

The aim of this WI is to identify

- 1. the extent of standardization required for multimedia in UMTS,
- 2. the functional distribution in the UMTS network and associated applications
- 3. impact of the functional distribution on user terminals (for instance, hand-held, phone with a PC, and others)
- 4. impact of the functional distribution on Core and Access network.

The issues that need study relate to one or more of the following:

- 1. Signalling for multimedia (call control, bearer control, and others)
- 2. Bearers characteristics for supporting multimedia applications
- 3. Routing aspects (can different component media streams be routed differently)
- 4. Numbering and Addressing schemes
- 5. Source coding (do we need a default codec?)
- 6. Relationship between source and channel coding
- 7. Applicability of generic bearers for multimedia

x.4 Service Aspects

x.5 MMI-Aspects

None.

x.6 Charging Aspects

Multimedia will have impact on charging in UMTS.

x.7 Security Aspects

None.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary) -- best possible

The output of this WI will be a technical report. Changes to specifications should be identified in the technical report and possible change requests produced. The deadline for completing the technical report and addressing the UMTS phase 1 (Release 99) issues is SMG #28.

[This section either consists in a reference to another TC-TR, or it has the following contents:]

	New specifications								
Spec No.			Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#		Approved at SMG#	Comments	
Affected e	existin	ig specifi	cations						
Spec No. CR Subject		Subject				Approved at SMG#		Comments	

< optional supplementary text, e.g. other documents to be produced >

Note: Even some GSM specifications might be affected.

x.10 Work item rapporteurs

< list of one or more persons/companies > -- mandatory

x.11 Supporting companies

Siemens, Motorola, Bosch, France Telecom, Cellnet, Nokia, Cegetel

x.12 Responsible STC(s)

Prime responsible SMG12

Secondarily responsible SMG1, SMG2, SMG4, SMG11

x.13 Others

<text> -- optional

13.3 WI on Study on provision of facsimile services in GSM and UMTS

x Study on provision of facsimile services in GSM and UMTS

x.1 SMG Project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x.2 Linked work items

None identified

x.3 Justification

SMG4 and SMG1 have jointly arrived at the conclusion that end-to-end support of the ITU-T fax protocol T.30 should not be provided in UMTS. As an alternative, a store and forward fax service is envisaged where the fax message is transfered as a file to a fax box. Another alternative would be to use the ITU-T T.38 protocol, to transfer the faxes over IP via a fax gateway. The advantages of such an approach would be that no additional standardisation in GSM/UMTS would be required.

x.4 Service Aspects

The same fax transmission method could be provided in GSM and UMTS thus allowing seamless roaming and handover between a UMTS and a GSM network. The facsimile transmission would not be a new service in GSM/UMTS, but would use bearer services provided in GSM/UMTS.

x.5 MMI-Aspects

MMI would be defined by T.38 client software.

x.6 Charging Aspects

To be studied. **x.7** Security Aspects

Nothing identified.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

		1	New spec	cifications		
Title		Prime rsp. STC	2ndary rsp. STC(s)	Presented for information at SMG#	Approved at SMG#	Comments
existing spe	ecifications					
CR	Subject			Approved	at SMG#	Comments
	existing spe	existing specifications	Title Prime rsp. STC	Title Prime 2ndary rsp. STC rsp. STC(s) existing specifications	rsp. STC rsp. information at STC(s) SMG#	Title Prime rsp. STC 2ndary rsp. sp. strc(s) Presented for information at SMG# Approved at SMG# strc(s) STC(s) SMG# SMG# SMG# existing specifications Strc(s) SMG# SMG# SMG#

x.10 Work item rapporteurs

Erik Colban, Ericsson

x.11 Supporting companies

Ericsson, Motorola, Bosch, Siemens

x.12 Responsible STC(s)

Prime: SMG 4

Secondary: SMG 1

x.13 Others

13.4 Work Item Description for MExE Release 99

x MExE Release 99

x.1 SMG Work Area-

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x. 2 Linked work items

MExE Release 98 and Virtual Home Environment, (VHE).

x. 3 Justification

MExE Release 98 has been defined to provide an extensible and future proofed execution environment in the MS by identifying the need for MExE protocols to support the introduction of new bearers.

The aim of this work item description is to define a set of core requirements for an enhanced MExE for Release 99 including the support of additional bearers identified in the UMTS Phase 1 work plan.

The following additional requirements associated with the support of the virtual home environment in UMTS, (defined in UMTS 22.70) shall also be supported: -

Allow the user to maintain the same "look & feel" to services when she changes terminal by putting her smart card into another terminal

Allow the network to differentiate on services and "look & feel" and enable the same service and "look & feel" to be provided when the user roams between networks.

MExE Release 99 should, in particular note the recommendations for a "toolkit" approach to service creation and service portability in the UMTS Phase1 VHE architectural model. In this model, an open service architecture is achieved by the use of standardised service capability servers and standardised APIs to transfer data and service programs distributed across the home and serving network aswell as the MS.

The following should be defined for MExE Release 99: -

- 1. Functionality of a secure and standardised execution environment in the network to complement the mobile station
- 2. Include negotiation mechanisms to support change in QoS
- 3. Investigate mechanisms to run remote status checks and terminal diagnostics.
- 4. Mechanisms to manage multiple MExE service profiles per USIM
- 5. Impact on the MS and application to support a generic mechanism to download codecs, (e.g. speech, video into the MS).

x.4 Service Aspects

The UMTS phase 1 capabilities are the same as those of GSM Phase 2+ plus the support of additional UMTS requirements. The fundamental characteristic of UMTS being the support of high bit rate bearer services with negotiated traffic and QoS.

Service execution in a GSM/UMTS environment should therefore also allow for re-negotiation of application parameters to allow user-initiated in-call modification and to allow the network to notify the user a degradation of the QoS.

The concept of standardised service capabilities is a fundamental feature for the support of the virtual home environment, (VHE) in UMTS. VHE is considered to consist of a set of tools that allows flexible service creation and differentiation.

To complement these execution environments in the MS, an enhanced MExE should specify those additional functions required in the network (apart from security, charging, billing and addressing) to provide a secure and flexible execution environment in the network. For example to establish calls to participants of a teleconference according to instructions (service data) specified by the user, or to download service data to the MExE application when triggered by events of a service program.

An enhanced MExE for Release 99 will be required to provide a mechanism to support the above requirements plus the mechanisms necessary to provide improved customer care and support associated with downloaded applications.

x.5 MMI-Aspects

x.6 Charging Aspects

It shall be possible to charge for additional services in MExE Release 99.

x.7 Security Aspects

The integrity of existing GSM security mechanisms shall not be weakened with the introduction of new MExE Release 99 services.

x.8 Impacts

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

<supplementary text> -- optional

x.9 Expected Output and Timescales (to be updated at each plenary)

	New specifications							
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)		ented for mation at #	approved at SMG#	Comments
Affected e	Affected existing specifications							
Spec No.	CR	Subject			/	Approved a	t SMG#	Comments
02.57		MExE Stage 1						
03.57		MExE Stage 2			Ş	SMG#31		

< optional supplementary text, e.g. other documents to be produced >

Note: Some GSM specifications might be affected.

x.10 Work item rapporteurs

x.11 Work item leadership

x.12 Supporting companies

Motorola, TIM, France Telecom, Lucent

x.13 Others

<text> -- optional

13.5 WI on provision of text telephony service in GSM and UMTS

x Provision of text telephony service in GSM and UMTS

x.1 SMG Project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	GSM-UMTS Services

x.2 Linked work items

Work Item on Multimedia in UMTS. **x.3 Justification**

Many hearing-impaired people would like to use GSM data devices to communicate with textphone users but GSM networks do not presently provide an apppropriate service. V.18 defines a universal textphone modem which can communicate with the many different types of textphone used by the hearing-impaired around the world. Such support for V.18 modems in the GSM specifications would make life much easier for hearing-impaired people by allowing them to communicate easily by using the GSM networks.

x.4 Service Aspects

An appropriately constructed mobile station would be able to communicate with the many different types of fixed-network textphones used by the hearing-impaired around the world, as well as with other such mobile stations. The service could, for example, be based on the existing non-transparent asynchronous data service.

x.5 MMI-Aspects

ITU-T T.140 describes a text conversation protocol and also gives general guidance on aspects of the MMI. T.140 is intended for real time text conversation in multimedia services and in text telephony. It is based on ISO 10646 Universal Character Set and features character by character transmission and a limited set of presentation controls.

x.6 Charging Aspects

To be studied.

x.7 Security Aspects

Nothing identified.

x.8 Impacts

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

	New specifications							
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	Presented for information at SMG#	Approved at SMG#	Comments	
	Text teleph	ony, stage 1	SMG4	SMG1				
	Text telephony, stage 2		SMG4	SMG1				
Affected existing specifications								
Spec No.	CR	Subject			Approved a	at SMG#	Comments	

x.9 Expected Output and Timescales (to be updated at each plenary)

x.10 Work item rapporteurs

Possibly to be provided by Hayes Microcomputer Products

x.11 Supporting companies

Hayes Microcomputer Products, Nokia,

x.12 Responsible STC(s)

Prime: SMG 4

Secondary: SMG 1

x.13 Others

x Virtual Home Environment

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
х	UMTS Services

x.2 Linked work items

Service Management, CAMEL phase 3, MExE, SIM Toolkit

x.3 Justification

UMTS TS 22.05 « Services and Service Capabilities » identifies the service capabilities provided by UMTS which allow the creation of new and innovative applications. These building blocks are the teleservices, the bearer services and the service features.

Service features are toolkits which allow service providers to create and provide new services on any UMTS network and any UMTS mobile station, subject to the limitations of the UMTS network and mobile station. The concept of providing the same services in the same way whatever UMTS network and UMTS mobile station is called Virtual Home Environment. This work item addresses the control aspects of VHE. Service management aspects of VHE are covered in a separate work item.

This work item is a phase 1 work item.

x.4 Service Aspects

The technologies which could be used to provide Virtual Home Environment are CAMEL phase 3, MExE and the SIM Toolkit.

x.5 MMI-Aspects

None.

x.6 Charging Aspects

None identified.

x.7 Security Aspects

None.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

This work item is for release 1999.

x.10 Work item rapporteurs

Erwin Postmann

x.11 Supporting companies

Motorola, FT, Ericsson, MMO, Siemens, T-Mobil, Fujitsu, Lucent.

x.12 Responsible STC(s)

Prime : SMG1

Secondary : SMG12, SMG4, SMG9, SMG3

x.13 Others

x UMTS Numbering, Addressing and Identities

x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

x.2 Linked work items

VHE

x.3 Justification

UMTS is a telecommunications system which allows person to person and machine to machine interactions. Addressing schemes allow users (people or machines) to indicate to the system the target of a particular communications session. Traditionally, this has involved a user dialling a telephone number to indicate the destination of a telephone call.

This WI shall elaborate the desirable features of the UMTS advanced schemes requirements for numbering, addressing and Identities for UMTS and translation mechanisms which could be used to enhance the service to the customer.

The requirements developed in this WI are to be used within ETSI NA2 to develop a proposal for numbering, addressing and identities applying existing schemes or developing new ones. Other ETSI groups will be involved in the development of addressing of applications and network elements.

This work item is a phase 1 work item.

x.4 Service Aspects

In addition to present numbering schemes, connection set up may be based on an alpha-numeric basis, either in place of a traditional number or in the style of the Internet. This may also be extended so as not to exclude other approaches, based on database checking, and also for terminal as well as user/subscriber numbering. This Work item is applicable to both GSM and UMTS.

The need for UMTS users to be able to interwork with users on legacy schemes. These would encompass telephony, data and multimedia. Unique identification of various entities in an UMTS environment is required.

For UMTS phase 1 the requirements are the following :

• The phase 1 UMTS core network shall support interworking with PSTN, N-ISDN, GSM, X.25 and IP networks with their respective numbering schemes (E.164, X.121, IP v4/6).

Different UMTS internal identities (e.g. location areas, cell IDs) have to be considered

x.5 MMI-Aspects

Numbering is an MMI topic.

x.6 Charging Aspects

Is charging still based on the dialled number?

x.7 Security Aspects

None identified.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

This work item is for release 1999.

			1	New spec	cifications		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	approved at SMG#	Comments
TR22.75	Advanced	d Addressing	SMG1		24		Revised after SMG#25
		ecifications					
Spec No.	CR	Subject			Approved	at SMG#	Comments
22.01		UMTS Servi	ice Principle:	S			

Existing GSM specifications might be effected.

x.10 Work item rapporteurs

Stephan Kleier / Mannesmann Mobilfunk

x.11 Supporting companies

Motorola, FT, Ericsson, MMO, Siemens, T-Mobil, Fujitsu, Lucent

x.12 Responsible STC(s)

Prime : SMG1

To be Approved by E-mail after SMG#27

38

Secondary : SMG3

x.13 Others

None identified

x UMTS Charging and Billing

x.1 SMG project

		UMTS Radio Access
	GSM Radio Access	
	GSM-UMTS Core Network	
Х	UMTS Services	

x.2 Linked work items

None identified

x.3 Justification

UMTS Charging and Billing requirements cover a range of voice and data services which are not yet available in GSM. Whilst GPRS billing features will cover many aspects of packet data, it does not yet address the QoS aspects required for multimedia and other packet-data oriented services. There is also a requirement for online billing and for external 3rd parties (Value Added Service Providers) to be able to offer services and receive payment. These requirements are covered in SMG1 Service Requirement specification 22.15.

A work item is therefore required to address these requirements, and develop a solution for UMTS Charging and Billing.

This work item is a phase 1 work item.

x.4 Service Aspects

The UMTS phase 1 requirements are the following :

- 1. The phase 1 UMTS core network shall support the generation of standardised charging records based among other parameters on duration, traffic (volume, bit rate) and performance provided to the user.
- 2. The phase 1 UMTS core network shall support on-line billing. Billing of 3rd party value added services with the concept of one-stop-billing shall be supported by the phase 1 UMTS core network through standardised procedures.

x.5 MMI-Aspects

None.

x.6 Charging Aspects

This work item addresses all charging aspects of UMTS.

x.7 Security Aspects

None.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

This work item is for release 1999.

x.10 Work item rapporteurs

David Chambers.

x.11 Supporting companies

Motorola, FT, Ericsson, MMO, Siemens, T-Mobil, Fujitsu, Lucent.

x.12 Responsible STC(s)

Prime : SMG1

Secondary : SMG6

x.13 Others

WID: Charging and Billing for GPRS – Hot Billing (R99)

1.1 SMG project

	UMTS Radio Access
	GSM Radio Access
Х	GSM-UMTS Core Network
Х	UMTS Services

1.2 Linked work items

None identified

1.3 Justification

GPRS Charging and Billing as currently defined covers the basic requirements for phase 1 for packet data services (release 1997), but it does not yet address the network service of Hot Billing. This requirement is for phase 2 (release 1998). This item is seen as desirable for operators.

A work item is therefore required to address the Hot Billing requirement, and to develop a solution within the GPRS Charging and Billing.

1.4 Service Aspects

The general service requirements for charging are covered in the 02.60 (stage 1 service description) and 03.60 (stage 2 service description) specifications for GPRS Charging and Billing. This item is to be specified as a phase 2 requirement.

1.5 MMI-Aspects

None

1.6 Charging Aspects

This work item addresses the charging aspects of GPRS for phase 2.

1.7 Security Aspects

None

1.8 Impacts

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

1.9 Expected Output and Timescales (to be updated at each plenary)

Release 1998

			N	ew spec	ifications		
Spec No.	Title		Prime rsp. STC	2 nd ary rsp. STC(s)	Presented for information at SMG#	Approved at SMG#	Comments
10.17	GPRS Char	PRS Charging and Billing			25	Expected at 26	
Affected e	existing speci	fications				<u>.</u>	-
Spec No.	D. CR Subject		Approved	at SMG#	Comments		
02.60		GPRS Stage 1 Description		21		STC SMG1	
03.60		GPRS Stage 2 Description			22		STC SMG3/12

1.10 Work item rapporteurs

1.11 Supporting companies

Agreed in SMG1 GPRS ad-hoc (Norrtajle, Sweden 27-28/05/1998) as a phase 2 requirement

1.12 Responsible STC(s)

SMG6

1.13 Others

SMG1 for Stage 1 description

SMG3/12 for Stage 2 description.

WID: Point-To-Multipoint Services (R99)

x.1 SMG project

Х	UMTS Radio Access					
Х	GSM Radio Access					
Х	GSM-UMTS Core Network					
Х	UMTS Services					

x.2 Linked work items

UMTS

x.3 Justification

Point-To-Multipoint (PTM) has been agreed to be a GPRS phase 2 service. The service description in GSM 02.60 details three services (PTM-M, PTM-G & IP-Multicast). Presently a stage 2 draft (GSM 03.61) for PTM-M exists, but nothing for the other two. Continued work in PTM services should be directed to the interworking of GPRS PTM-M and PTM-G services with IP-Multicast services.

This service should be easily reused in UMTS when supported by UMTS radio.

x.4 Service Aspects

The following is the services that should be studied -

PTM-M, i.e. broadcast services for a specific geographical area.

PTM-G, i.e. a service limited to a specified group of subscribers.

x.5 MMI-Aspects

None identified.

x.6 Charging Aspects

Defined in 02.60.

x.7 Security Aspects

Aspects of group identification, authorization and privacy should be defined.

x.8 Impacts

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

x.9 Expected Output and Timescales (to be updated at each plenary)

			Ne	w specifi	cations		
Spec No.	Title		Prime rsp. STC	2ndary rsp. STC(s)	presented for information at SMG#	Approved at SMG#	Comments
03.61	PTM-M		SMG12		SMG#29	SMG#31	
03.62	PTM-G		SMG12		SMG#29	SMG#31	
Affected e	existing spec	cifications					
Spec No.	CR	Subject			Approved at	SMG#	Comments

x.10 Work item rapporteurs

To be defined

x.11 Supporting Companies

Nokia, Ericsson, Telia, Lucent.

x.12 Responsible STC(s)

SMG12

x.13 Others

Editorial note: The structure of WI description should be revised and eventually modified by STC SMG12.

3.x New Access Network to Core Network (BSS-NSS) interface

3.x.1 SMG project

	UMTS Radio Access						
	GSM Radio Access						
Х	GSM-UMTS Core Network						
	UMTS Services						

3.x.2 Linked work items

3.x.1 Justification

A new radio access interface will be developed for UMTS/IMT-2000 (the UTRA). A complete new radio access network will be developed around this interface (UTRAN). These features are covered by the UMTS Radio Project.

The split between a radio access network (BSS) and a Core Network (NSS) determines reference point Iu. The existing interface specifications for GSM (A and Gb interfaces) are not sufficient for the needs of UTRA (e.g., high bit rates).

The purpose of this work item is to develop for the Iu reference point interface specifications suitable, at least, both for the interconnection of the future UMTS Radio Access Network and the GSM-UMTS Core Network and for the interconnection of the GSM Radio Access Network (GSM BSS) with the GSM-UMTS Core Network.

A secondary aim of these interface specifications is to cover, as far as requirements are provided by sources external to the project, needs for inter-connecting the UTRAN to other Core Networks, and needs for inter-connecting other Access Networks (examples of potential cases are BRAN, satellite networks, ...) to the GSM-UMTS Core Network.

These interface specifications shall cover the physical, link and network layers for signaling and user packets, the Access network protocol implementing the primitives as described in UMTS 23.10, and the protocols for other user data transport as needed.

The goal is that these interface specifications will be published by ETSI as mandatory for the interconnection between UTRAN and the GSM-UMTS Core Network.

3.X.2 Service Aspects

These interface specifications shall cover all the requirements set by providing services to the users through the UTRAN and the GSM-UMTS Core Network, or through the GSM Radio Access Network and the GSM-UMTS Core Network.

3.X.3 MMI Aspects

Not applicable.

3.x.4 Charging Aspects

Not applicable.

3.x.5 Security Aspects

None.

3.x.6 Impacts

Affects	SIM	ME	NW	Other
Yes			Х	
No	Х	Х		
Not known				

3.x.7 Expected output and Timescales (to be updated at each plenary)

The first phase of the Work Item shall consist in a study, finalized by a Report, which shall address the choice between developing a new set of specifications or to extend the set included in the GSM 08 series, and the choice, if applicable, of the basic transmission technique (e.g., PCM or ATM, IP, SS7, ...).

The second phase of the Work Item shall consist in the development of the interface specifications.

Document	Yes or No	Date for TC approval	Comments, list of specifications, list of CRs, etc.
Report	Х	SGM#26	Principles for the lu Interface
New specifications		SMG#28	Interface specifications
CRs to existing specifications		SMG#28	The impact on the existing GSM specifications (08 series, 09 series,) has to be assessed
Others			

New specifications:

23.30 Principles for the lu Interface ? Interface specifications

	Affected existing specifications							
GSM No.	CR	Subject	Approved at SMG#	Comments				

3.x.8 Rapporteur(s)

Overall Item : (Proposed) Michel Mouly, Nortel, SMG3/SA Chairman

23.30 Lauri Söderbacka, Nokia

Others TBD

3.x.9 Others

The main responsibility for the Work Item will be SMG3/SA, as part of the GSM-UMTS Core Network projects, with liaison with SMG2 (for UTRAN and GSM BSS) and with other bodies developing other Access Networks and/or other Core networks, and committed to use the Iu interface for these networks.

Editorial note: The structure of WI description should be revised and eventually modified by STC SMG12.

3.x Architecture overview of the GSM-UMTS System

3.x.1 SMG project

	UMTS Radio Access
	GSM Radio Access
	GSM-UMTS Core Network
Х	UMTS Services

3.x.2 Linked work items

3.x.1 Justification

The aim of this Work Item is to provide an architectural framework for the development of the UMTS specifications. This framework will consist in a set of documents which will describe the high-level architecture of UMTS, both for the Infrastructure side and the User Equipment side.

The description shall be sufficient for organizing the work between the Radio Access projects (UMTS Radio Access and GSM Radio Access projects) and the GSM-UMTS Core Network project. The description shall identify major reference points, the major modules of the system and the major functional planes. The description shall not go into details which can be addressed in the Radio Access project or in the GSM-UMTS Core network projects.

3.X.2 Service Aspects

The general architecture shall be in line with the requirements expressed in UMTS 22.01.

3.X.3 MMI Aspects

Not applicable.

3.x.4 Charging Aspects

Not applicable.

3.x.5 Security Aspects

Not applicable.

3.x.6 Impacts

Affects	SIM	ME	NW	Other
Yes	Х	Х	Х	
No				
Not known				

3.x.7 Expected output and Timescales (to be updated at each plenary)

The two main expected outputs are a document providing a high-level description of UMTS, and a document describing in details the functional split between the parts of the system which will be respectively developed under the UMTS Radio Access project and the GSM-UMTS Core Network project.

Document	Yes or No	Date for TC approval	Comments, list of specifications, list of CRs, etc.
Report			
New specifications		?	General architecture description Access Stratum
CRs to existing specifications		?	The impact on the existing GSM specifications (03.02, 03.09, 09 series,) has to be assessed
Others			

			New specifications:			
23.01 Ge	eneral UMTS	Architecture				
23.10 Se	ervices provid	led by the UMTS Radio A	Access Stratum			
Affected existing specifications						
GSM No.	CR	Subject	Approve	ed at SMG#	Comments	
TBD						

3.x.8 Rapporteur(s)

Overall Item : (Proposed) Michel Mouly, Nortel, SMG3/SA Chairman

23.01 Roland Bodin, Ericsson

23.10 Michael Schönborn, T-Mobil

Others TBD

3.x.9 Others

The main responsibility for the Work Item will be SMG3/SA.

Editorial note: The structure of WI description should be revised and eventually modified by STC SMG12.

3.x Architecture the GSM-UMTS Platform

3.x.1 SMG project

	UMTS Radio Access					
	GSM Radio Access					
Х	GSM-UMTS Core Network					
	UMTS Services					

3.x.2 Linked work items

3.x.1 Justification

The aim of this Work Item is to provide an architectural framework for the development of the specifications of the GSM-UMTS Platform, as defined by UMTS 23.01 and 23.10. This framework will consist in a set of documents which will describe the architecture of UMTS, both for the Infrastructure side and the User Equipment side.

The description shall be sufficient for organizing the work within the GSM-UMTS Core Network project. This description shall identify all reference points and all functional entities inside the platform and relevant for the UMTS specifications issued by the project, including those linked to Operation and Maintenance. This description shall identify all protocols which are specified within the UMTS specifications issued by the project. This description shall also cover the major system features on which are built the services and features addressed by other Work Items. This includes such aspects as backbone transport networks, Operation and Maintenance support networks, mobility aspects, call and session concepts.

3.X.2 Service Aspects

The general architecture shall be in line with the requirements expressed in UMTS 22.01.

3.X.3 MMI Aspects

Not applicable.

3.x.4 Charging Aspects

Not applicable.

3.x.5 Security Aspects

Not applicable.

3.x.6 Impacts

Affects	SIM	ME	NW	Other
Yes	Х	Х	Х	
No				
Not known				

3.x.7 Expected output and Timescales (to be updated at each plenary)

Document	Yes or No	Date for TC approval	Comments, list of specifications, list of CRs, etc.
Report	Х	?	Evolution of
New specifications	Х	?	
CRs to existing specifications		?	TBD
Others			

New specifications:

23.20 Evolution of the GSM platform towards UMTS 23.05 Network Principles

25.05 Network Finici

Affected existing specifications				
GSM No.	CR	Subject	Approved at SMG#	Comments
TBD				

3.x.8 Rapporteur(s)

Overall Item : (Proposed) Harald Dettner, Siemens, SMG3 Vice-Chairman

23.20 André Jarvis, Lucent Technology

23.05 Alain Sultan, France Télécom

Others TBD

3.x.9 Others

The main responsibility for the Work Item will be SMG3/SA.

Draft UMTS 30.00 V3.6.0 (1998-11)

History

Document history				
Date Status		Comment		
March 97	3.0.0	Approved by correspondence		
June 1997	3.1.0	Approved by SMG#22		
October 1997	3.2.0	Approved by SMG#23		
December 1997	3.3.0	Approved by SMG#24		
March 1998	3.4.0	Approved by SMG#25		
June 1998	3.5.0	approved by SMG#26		
November 1998	Draft 3.6.0	to be approved after SMG#27 by correspondance by E- mail, approval date is 10 January 1999		
		The document contains changes as agreed by SMG27 in Praaha		