

**Agenda Item:** 6

**Source:** Chairman, ETSI/SMG1

**Title:** **Proposed Approach to 3G Service Requirements**

**Document for:** Discussion, possible basis for approval.

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ETSI/SMG has worked for some years to provide a coherent approach to specifying the third generation of mobile telecoms, aiming to provide an evolution from GSM while also offering new functionality to meet the demands of a fast moving market place. This must support new as well as existing operators, and a range of commercial environments, not just traditional cellular. The proposed UMTS standard has potential for long term developments, not all of which can be realised in Release 99, so a flexible approach is needed. Requirements already identified that cannot be supported immediately must be stated now, so that the architecture can, as far as possible, be designed to accept later additions.

SMG1 has been responsible within ETSI/SMG for preparing service requirements and specifications for UMTS. It should be noted that as far as practical, a service creation philosophy has been adopted, to provide a flexible capability as required in a modern competitive market place. This contrasts with earlier approaches, which specified exactly the services to be provided.

UMTS 30.00 contains the detailed work program for UMTS and is regularly updated to reflect progress. It also lists the individual work item descriptions, so is a rather large document. The work program for services is contained in paragraph 4.2 and is reproduced below. It will be noted that there are a number of specifications which state firm requirements and also some reports which give the background to the thinking and planning for UMTS, but do not contain normative requirements.

TS 22.00 is an overview document, in particular summarising what is required to be included in Release 99, whereas the later specifications do contain a few items which are for later introduction. An earlier version of this specification was seen by SMG plenary and it has since been updated by SMG1 and is submitted to the next plenary meeting (SMG#28, 8-12 February 1999) for approval.

TS 22.01 describes the service principles which are then elaborated in the remaining documents, especially TS 22.05 which defines services and service capabilities. Both these documents have been approved by SMG but the versions presented at this meeting do incorporate some changes to reflect the latest thinking in these areas. These changes have been agreed by SMG1 and are submitted to SMG#28 for approval.

TS 22.15 covers the service aspects of charging and billing. In GSM, much of this responsibility was with the operators of the GSM MoU Association, but it is felt that in UMTS, open standards will be needed. This specification has now been completed by SMG1 and is submitted to SMG#28 for approval.

New work on Handover (TS.XX) and Virtual Home Environment (TS.YY) is well advanced and is agreed by SMG1 to be presented to SMG#28 for information. These would be expected to be finalised in one more round of meetings.

It is considered that the above listed specifications should prove sufficient to specify the service requirements for a complete third generation system to meet the market aspirations for Release 99, without being so ambitious as to jeopardise the timescales for introduction. They have a pragmatic balance between service definition and the flexibility of service creation and aim to provide a path forward for future enhancements.

TSG SA WG-1 is invited to consider these documents alongside inputs from other member organisations with a view to deciding on a firm decisive approach for services. It is important to reach an early decision in order not to delay progress in the rest of 3GPP, where timescales for Release 99 are extremely short.

## 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 not yet approved document	Approval status: planned or approved
22.00 specification		UMTS phase 1 capabilities		SMG1	David Verrier	v 1.0.0 SMG#27	plan v.3.0.0 SMG#28
22.01 specification		UMTS Service principles		SMG1	Paul Dwyer		appr. v. 3.3.0 SMG#27
22.05 specification		Services and service capabilities		SMG1	David Verrier		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
22.15 specification		Service aspects: Charging and Billing		SMG1, [SMG10, SMG6]	David Chambers	v.1.2.2, SMG#25	SMG#28
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
22.77 report		UMTS Service scenarios		SMG1, [SMG]	Jumoke Ogunbekun		plan. V.1.0.0 SMG#25
22.80 report		UMTS relationship with other standards		SMG1 [SMG]	Bo Axerud	v.2.0.1 SMG#24	On hold
22.29		DRAFT Handover Requirements between UMTS and GSM or other Radio Systems		SMG1	David Cooper	v1.0.0 ....	
22.21		Virtual Home Environment		SMG1	Jumoke Ogunbekun		
22.72		Multimedia		SMG1/4	Ralf Fischer		