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Source: Chairman ETSI/SMG1

Title: **Proposals for Treatment of *Service Requirements* in UMTS**

Agenda:

Purpose: **Discussion**

Specification of *Service Requirements* in UMTS has progressed well in ETSI/SMG1 and indeed needs to be stable well ahead of the completion of all other standards work in UMTS in order to give direction and to specify clear *requirements* to other technical groups without delay.

Progress

It should be noted that in UMTS it is planned to specify where possible capabilities and mechanisms for service creation, although commonly used services, especially those requiring interworking with existing systems such as ISDN, may be specified in more detail as examples. The scope is wider than in second generation, to include user-friendly, efficient and cost-effective support of multi-media and also includes a cordless as well as a cellular component. Backwards compatibility to be able to support dual GSM/UMTS networks and terminals is included to provide service in areas outside UMTS coverage (both within a network's territory and roaming abroad).

It is planned that where appropriate, some topics will be equally applicable to GSM and UMTS. Examples include the traditional supplementary services, where due to interworking and other reasons, the approach (as with ISDN) of defined, functional signalling can still be applicable. However, this is now seen as being of optional implementation and it may be supplemented by a *service creation* approach. In addition, the Virtual Home Environment is intended to be applicable to both GSM and UMTS (especially as they may share a common core network), and the important elements of this, Camel and MExE, should also be applicable to GSM and UMTS.

ETSI SMG has already formally approved (for internal use) the following specifications and reports, which are available on the ETSI Server:

- TS 22.01 Service Principles (Specification)
- TS 22.05 Services and Service Capabilities (Specification)
- TR 22.07 Terminal and Smart Card Concept (Report)
- TR 22.24 Charging and Accounting Mechanism (Report)
- TR 22.25 Quality of Service and Network Performance (Report)
- TR 22.60 Mobile Multi-Media, Internet and Intranet (Report)
- TR 22.70 Virtual Home Environment (Report)
- TR 22.71 Automatic Establishment of Roaming Relations (Report)
- TR 22.75 Advanced Addressing (Report)

These documents (especially the specifications) are subject to change under controlled procedures, especially to reflect latest thinking and feedback from other groups. Indeed, there are changes being currently debated in SMG1 which will be submitted for approval by the appropriate body, presumably next February. In addition, SMG1 will be submitting TS 22.00, *UMTS Phase 1 Specification*, for approval at that time. An earlier version was seen by SMG#27 in October and has been updated to include comments received. This document is important in that it lists all the requirements that are seen

as included in the first release of UMTS, whereas the other documents include some important features that may not be initially achievable.

SMG1 has made good progress on two further specifications, which will be submitted for information in February and are expected to be ready for approval in June 1999. They have not yet been allocated numbers, but one is on *Virtual Home Environment* and the other on *Handover Requirements between UMTS and GSM*.

SMG1 is also holding ad-hoc meetings on Multi-Media Support, Camel phase 3 (in December) and on Handover (in January).

Proposals

Although most work on **GSM** service requirements is now complete, there will be ongoing maintenance required. Work is not yet complete on the Release 99 items of Camel 3, GPRS 2 and providing a stage 1 description for SIM Toolkit. Of these, only Camel is also of major interest to 3GPP. This work can either remain in ETSI/SMG1, be transferred to WG-Services or be given jointly to both groups.

Although the Services work on the first phase of **UMTS** is well advanced, it will continue and must provide clear guidance to the other technical groups within 3GPP and act responsively. **It is proposed that a Services Working Group be set up within the System Aspects TSG.** This might work in a similar way to the present UMTS part of ETSI/SMG1, which already has separately identified agendas for GSM and UMTS parts of its meetings. Indeed, it is highly likely that many of the present delegates would wish to join the new group, to perform the same work, which is based on an evolved GSM core network.

Since there is considerable synergy between the two groups with so far many delegates attending both parts of the meeting, it may be desirable to hold the two meetings (SMG1-GSM and TSG-SA WG Services) together at the same place, one following the other. This would minimise delay and disruption, while broadening the scope to include all interested members of 3GPP (who would all be invited to attend the SMG part if desired). **It may also be necessary for joint sessions to cover topics of interest to both GSM and UMTS, especially Camel 3 and MExE.**

The working procedures for support by Project Team/STF staff should also be examined and possibly rationalised.

It is important to maintain the **long term vision** for UMTS and not to make short term decisions that might block future progress. SMG1 has always aimed for this long term vision and treats TS 22.00 as identifying the short term component of this. However, they will need to ensure that the architecture will support, as far as possible, these future enhancements and look forward to working closely with ETSI Project UMTS who have a longer term mandate, including enhancements to VHE and Fixed Mobile Convergence.

Decisions Needed

TSG-System Aspects is invited to consider the above aspects and take decisions on the following:

1. To set up a Working Group on Services, with a close relationship to SMG1 (which will retain responsibility for GSM).
2. The responsibility for work of equal interest to both GSM and UMTS (especially Camel 3), possibly allocating joint responsibility.
3. To agree an approval process (by TSG-SA?) for the work in progress of SMG1 as outlined above and possibly also to endorse the work already approved by SMG plenary.
4. A timescale and plan for creating the above, including chairmanships.

Suggested Terms of Reference for TSG-SA WG-Services are attached.

Suggested Terms of Reference

for

3GPP - System Aspects TSG – Services WG

1 Responsibility

The main task of the Services Working Group is the specification of service requirements and capabilities for the UMTS standard.

2 Work Plan

To build on the work already undertaken for UMTS by ETSI/SMG 1 and [*other standards bodies to be added if appropriate*] in order to:

1. Determine the world-wide objectives and priorities for UMTS services, taking into account the needs and aspirations of users, operators, regulators and manufacturers.
2. Specify service architecture, requirements and capabilities and, where appropriate, service definitions, for UMTS.
3. Ensure the relevance of UMTS standards in a context which includes cellular, cordless, broadband, fixed, satellite and Internet environments, as well as evolution from GSM [and other second generation] standards.
4. Produce a time and milestones plan for the introduction of the various features planned for releases subsequent to 1999.
5. Promote the UMTS service approach within the context of IMT-2000.

3 Liaisons

The Services WG has direct liaisons with, but not restricted to, T1P1.5, [TTC], ETSI/EP/UMTS, ETSI/NA2, ETSI/HF and GSM MoU SERG, as well as all relevant groups within 3GPP.