To   **TSG-T2**

From   **TSG-S1**

Title: **LS on Principles for the continued work with Terminal Capabilities**

S1 thank T2 for the liaison <u>TSGT2#3(99)447 (identification of service capabilities)</u> detailing the progress with terminal capabilities. On the issue of a definition for "service capability" the S1 definition is provided in the VHE document TS22-12.

1. Definition of Service Capabilities
S1 Definition:
Service Capabilities: Bearers defined by QoS parameters and/or mechanisms needed to realise services.

T2 Definition
Service capabilities: capabilities that can be used either singly or in combination to deliver services to the user. The characteristic of service capabilities is that their logical function can be defined in a way that is independent of the implementation of the UMTS system (although all service capabilities are of course constrained by the implementation of UMTS). Examples: a data bearer of 144 kbps; a high quality speech teleservice; an IP teleservice; a capability to forward a speech call.

S1 believes that the T2 definition is clearer and more extensive. As it is advisable for there to be only one 3GPP definition for any term, S1 will adopt the T2 definition in its documents.

2. Service Capabilities for R'99
In our documentation unless otherwise stated, none of the identified service capabilities are mandatory in the terminal and the support of one service in a terminal does imply a requirement to support any other service. The R'99 requirements for the services listed below are elaborated in TS 22.00 unless otherwise indicated. UMTS R99 should standardise technical means according to which a terminal may implement the following service capabilities.

- Addressing schemes
- Narrowband Speech. Note: where a terminal supports this service it shall support emergency speech calls.
- Emergency speech call.
- Circuit Switched bearers of QoS as elaborated in TS 22.00.
- Packet Switched bearers of QoS as elaborated in TS 22.00.
- Real time fax service.
- Short Message Service Point to Point.
- Short Message Service Cell Broadcast.
- Handover requirements elaborated in TS 22.129.
- Supplementary service as in GSM R'99

Supplementary services are used to complement and personalise the usage of basic telecommunication services (bearer services and teleservices). The capabilities standardised in UMTS shall enable all the supplementary services specified in GSM 02.04 and the 02.8x set to be provided.

- Terminal resident service platform and execution environments as in GSM R'99 e.g. MExE
- Support for USIM based execution environments as in GSM R'99 e.g. SAT
- Support for on-line billing.

We hope this information will assist you in your goals to achieve stable specifications for the baseline implementation capabilities. As you see we do not preclude the support of the default speech service or the ability to minimise the number of mandatory implementation capabilities. However it is important to note that the standards must support all of the requirements.