

TSG-SA Working Group 1 (Services) meeting #2
Edinburgh, Scotland 9th-12th March 1999
Agenda item: 9.0.10

TSGS1#2(99)201

CHANGE REQUEST No : <input style="width: 50px;" type="text"/>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
Technical Specification 3GPP: <input style="width: 50px;" type="text"/> 22.00		Version <input style="width: 50px;" type="text"/> 3.1.0
Submitted to <input style="width: 40px;" type="text"/> TSG SA <input style="width: 40px;" type="text"/> <small>list plenary meeting or STC here ↑</small>	for approval <input checked="" type="checkbox"/>	without presentation ("non-strategic") <input checked="" type="checkbox"/>
	for information <input type="checkbox"/>	with presentation ("strategic") <input type="checkbox"/>
<i>PT SMG CR cover form. Filename: cr26_3.doc</i>		

Proposed change affects: SIM ME Network
(at least one should be marked with an X)

Work item:

Source: Ericsson **Date:** 8 March, 1999

Subject: Clarification on number of bearer services

Category:	F Correction <input checked="" type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/>
	A Corresponds to a correction in an earlier release <input type="checkbox"/>		Release 96 <input type="checkbox"/>
	B Addition of feature <input type="checkbox"/>		Release 97 <input type="checkbox"/>
	C Functional modification of feature <input type="checkbox"/>		Release 98 <input type="checkbox"/>
	D Editorial modification <input type="checkbox"/>		Release 99 <input checked="" type="checkbox"/>
			UMTS <input checked="" type="checkbox"/>

(one category and one release only shall be marked with an X)

Reason for change: Multiple connections for a single mobile could be realised through several calls. To support several calls, several parallel UMTS bearer services shall be possible to set up to circuit-switched networks (e.g. ISDN or PSTN) and to packet-switched networks (e.g. IP).

Clauses affected: Bullet 7 in section 8 UMTS Core Network

Other specs affected:	Other releases of same spec <input type="checkbox"/>	→ List of CRs:	<input style="width: 100%;" type="text"/>
	Other core specifications <input type="checkbox"/>	→ List of CRs:	<input style="width: 100%;" type="text"/>
	MS test specifications / TBRs <input type="checkbox"/>	→ List of CRs:	<input style="width: 100%;" type="text"/>
	BSS test specifications <input type="checkbox"/>	→ List of CRs:	<input style="width: 100%;" type="text"/>
	O&M specifications <input type="checkbox"/>	→ List of CRs:	<input style="width: 100%;" type="text"/>

Other comments:

- 6) Point to multipoint communication configurations as defined in TS 22.05 shall be supported by the phase 1 UMTS core network.
- 7) The phase 1 UMTS core network shall allow one mobile termination to simultaneously handle more than one bearer service ~~simultaneously to circuit-switched networks (e.g. PSTN or ISDN) and more than one bearer service to packet-switched networks (e.g IP).~~ and to have The bearer services ~~do then~~ may have of different connection modes. It is nevertheless expected that the terminal and network capabilities will put some limitations on the number of bearer services that can be handled simultaneously. It shall be possible for each connection to have independent traffic and performance characteristics. It shall be possible for each connectionless message to have independent traffic and performance characteristics.
- 8) In order to facilitate the development of new applications, it shall be possible to address applications to/from a phase 1 UMTS mobile termination in connection oriented and connectionless traffic modes (e.g. the notion of Internet port).
- 9) Operator specific services based on the VHE concept shall be provided by the phase 1 UMTS core network. This functionality could be provided through available toolkits (such as CAMEL, MExE, WAP and SIM Toolkit).
- 10) If UMTS authentication is invoked while a user has services active, the authentication shall not degrade the user services.
- 11) The phase 1 UMTS core network shall support the generation of standardised charging records based upon parameters such as the dialled number, call duration, traffic (volume, bit rate) and perceived Quality of Service provided to the user.
- 12) 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.
- 13) The phase 1 UMTS core network shall support both bilateral and (possibly via 3rd party) automatic roaming procedures to UMTS networks with improved security as defined by SMG10.
- 14) The phase 1 UMTS core network shall support interworking with PSTN, N-ISDN, GSM, X.25 and IP networks with their respective numbering schemes.
- 15) It shall be possible for the standardised classes of phase 1 UMTS mobile terminals supporting the GSM BSS and UTRAN radio interfaces to roam in GSM networks and receive GSM services.
- 16) Standardised protocols shall be defined for the operation, administration and maintenance of the UMTS phase 1 core network in cooperation with ETSI TMN.
- 17) The USIM requirements defined for later releases of UMTS should be taken into account in the design of the phase 1 UMTS core network.

9 USIM

In the first phase of UMTS, the USIM shall be developed on the basis of the phase 2+ release 99 GSM SIM. The additional requirements for the phase 1 UMTS USIM are as follows :

- 1) USIM shall provide new and enhanced security features (e.g. mutual authentication...) as defined by SMG10.
- 2) The UMTS mobile terminal shall support phase 2 and phase 2+ GSM SIMs as access modules to UMTS networks. The services that can be provided in this case may be limited to GSM like services provided by that UMTS network. UMTS mobile terminals shall not support 5V SIMs. It shall be up to the UMTS network operator to accept or reject the use of GSM SIM as access modules in its network.
- 3) It shall be possible to have multiple applications on the UMTS IC Card (UICC). There shall be a secured and easy mechanism for application selection. An authorised access for each application is mandatory, however it shall be possible to have shared directories between applications where appropriate. The UICC shall be capable of supporting SIM and USIM applications.

- 4) Simultaneous activation of several USIMs on one mobile terminal need not be supported in UMTS phase 1.