

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

TSGS1#2(99)211
 Agenda Item: 9.2.2

CHANGE REQUEST No : A007			<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 GSM / UMTS:	22.05	Version	3.3.0
Submitted to SMG 	for approval X	without presentation ("non-strategic") 	
<small>list plenary meeting or STC here ↑</small>	for information 	with presentation ("strategic") 	
<i>PT SMG CR cover form. Filename: crf26_3.doc</i>			

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

Work item: UMTS TS 22.05 Services and Service Capabilities

Source: BT **Date:** 12 March 1999

Subject: TTo add requirement for high quality speech.

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input checked="" type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>		Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input type="checkbox"/> UMTS <input checked="" type="checkbox"/>
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(one category and one release only shall be marked with an X)

Reason for change: To meet ARIB Requirements

Clauses affected:

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

6.4 Existing Teleservices supported by UMTS networks

The subset of standardised teleservices shall be supported by UMTS for interworking with teleservices provided on other networks. The means to support the following set of teleservices will be standardised;

- Speech;
- Emergency call;
- Short message service;
- Facsimile.

6.4.1 Speech

The speech service as defined in international standards should be supported by UMTS. The international reference for the speech is ITU E.105 recommendation. UMTS networks should contain interworking units which allow calls to be received from or destined to users of existing networks like PSTN, ISDN, GSM. This will include interworking units for generation of DTMF or other tones (the entire DTMF tone set would at minimum be available) and detection of DTMF tones.

Speech (7kHz) communications via bi-directional and symmetric channels between UMTS users or with fixed wireline or GSM users with equivalent or better quality than the audio quality of G.722 shall be supported in Phase 1, but not in Release 99.

A default speech codec is required for UMTS (refer to 22.25 for QoS) shall be specified to provide speech service across the UTRAN. The selected speech codec shall be capable of operating with minimum discernible loss of speech during handover between the GSM access network and UTRAN.

6.4.2 Emergency Call

This service will use components of Speech. There are however compared to Telephony reduced authentication requirements and a requirement for specific routing. Additionally Emergency Calls may have higher priority than normal calls, etc.. The reference for the emergency call service is GSM 02.03.

6.4.3 Short Message Service - Point to Point (SMS-PP)

The short message service point to point as specified in the 02.03 shall be supported in UMTS. GSM 02.03 shall be supported in UMTS. A short message service shall be provided seamlessly (as far as the user or the users terminal equipment is concerned) across the UMTS access networks. Additional features are planned for SMS in GSM Release 99.

6.4.4 Short Message Service - Cell Broadcast (SMS-CB)

A short message service cell broadcast shall be provided seamlessly (as far as the user or the users terminal equipment is concerned) across the UMTS and GSM network.

6.4.5 Facsimile

Facsimile group 3, for interworking with fax in the fixed network, shall be supported. The Fax service is described in ITU F180 and F180 bis recommendations.

6.5 Internet Access

Internet is seen as the most important source of data traffic in UMTS. UMTS shall provide means to interwork with external data networks. This interworking shall satisfy, within the constraints introduced by the mobile radio environment, the QoS requirements of the interworked-with network. For UMTS the Internet is seen as the most important interworked-with network, therefore the specification of an optimised access to Internet shall be part of the UMTS standard. The most important benefits achieved by the definition of Internet Access would be: