

Source: TSG SA1
Title: CR to 22.101 on Text conversion for Global Text Telephony
Document for: Approval
Agenda Item: 7.1.3

Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc. No.
22.101	050		R00	B	Text Conversation	4.0.0	4.1.0	S1-000649

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

22.101 CR 050

Current Version: **4.0.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG#9**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: SA1 **Date:** 18/8/00

Subject: Text Conversation

Work item: Global Text Telephony

Category: F Correction **Release:** Phase 2
A Corresponds to a correction in an earlier release
(only one category shall be marked with an X) B Addition of feature
C Functional modification of feature
D Editorial modification
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change: Introduction of text conversation.

Clauses affected: 2.1, 6.2.4, 11

Other specs affected: Other 3G core specifications → List of CRs:
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments: Emergency service influence is handled separately



help.doc

<----- double-click here for help and instructions on how to create a CR.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

2.1 Normative References

- [1] TS 22.105 "Services and Service Capabilities"
- [2] TS 22.121: "Virtual Home Environment (VHE), Stage 1"
- [3] TS 22.038: "SIM application toolkit, stage 1"
- [4] TS 22.001: "Principles of Circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".
- [5] TS 22.004: General on supplementary services"
- [6] TS 22.030: "Man-Machine Interface (MMI) of the User Equipment (UE)"
- [7] TS 22.066: "Support of Mobile Number Portability (MNP); Service description; Stage 1"
- [8] TS 22.079: "Support of Optimal Routing; Stage 1"
- [9] TS 22.129: "Handover Requirements between UMTS and GSM or other Radio Systems"
- [10] TS 33.102: "Security Architecture"
- [11] TS 22.011: "Service Accessibility"
- [12] TS 22.016: "International mobile Station Equipment Identities (IMEI)"
- [13] GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile Radio Interface Layer 3 Specification"
- [14] TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)"
- [15] TS 21.133: "Security Threats and Requirements"
- [16] TS 33.120: "Security Principles"
- [17] TS 22.042: "Network Identity and Time Zone, Service Description, Stage 1"
- [18] GSM 02.09: "Digital cellular telecommunications system (Phase 2+); Security Aspects"
- [19] TS 31.102: "USIM Application Characteristics"
- [20] TS 22.121: "Architectural Requirements for Release 99"
- [21] TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)"
- [22] TS 22.060: "General Packet Radio Service (GPRS)"
- [23] TS 29.002: "Mobile Application Part (MAP) specification "
- [24] TR 23.972: "Circuit Switched Multimedia Telephony".
- [25] TS 22.IM: "IP multimedia (IM) CN subsystem, stage 1"

[26] RFC2543: "SIP: Session Initiation Protocol"

[28] [TS 22.226: "Global Text Telephony, Stage 1."](#)

-----To follow after section 6.2.3 on Multimedia Messaging -----

6.2.4 Text Conversation

Global Text Telephony (GTT) is a feature that enables real-time text conversation [28].

- GTT enables real time, character by character, text conversation to be included in any conversational service, Circuit Switched as well as IP based.
- It is possible to use the text component in a session together with other media components, especially video and voice.
- Interworking with existing text telephony in PSTN as well as emerging forms of standardised text conversation in all networks is within the scope of this feature.
- The text media component can be included initially in the session, or added at any stage during the session.
- The text component is intended for human input and reading, and therefore supports human capabilities in text input speed. The character set support is suitable for the languages the users communicate in.
- GTT specifies limited interoperation with Multimedia Messaging Services including a possibility to divert to messaging in case of call failure and sharing user interface equipment and external UE interfaces.

11 Human Factors and user procedures

As defined in the Service Provision Concepts subclause of this 3GPP specifications should meet future communication requirements and shall be designed to be adaptable to provide new services as and when they are defined.

The User Interface (MMI) from the end-user's point of view should be as flexible as possible while still meeting the general service requirements. In addition it should be capable of being updated so as to meet new services which are still to be envisaged.

In general the following principles should be encompassed:

- activation of services should be as simple as possible with minimum input expected from the user;
- feedback, to the user from the various services, should be meaningful;
- any error recovery procedures provided should be simple to understand and execute.
- input from the user and information to the user should be provided in alternative selectable modes in order to match user capabilities, preferences and situation.

However, a detailed specification for the User Interface shall not be defined. In particular given the global nature of the third generation systems, for different regions of the world, different criteria will determine the implementation of the User Interface. Also it is unlikely that there will be a single common handset which will meet all the service requirements and therefore a common User Interface would be impractical.

Given the flexibility of the services, there should be a wide range of User Interface possibilities. These possibilities include simple terminals with a single on/off button through to complex terminals providing support to hearing/visually impaired users.

Control of supplementary services (TS 22.004 [5]), may use MMI procedures specified in TS 22.030 [6] and existing GSM MMI related UE features (Annex A) may also be used. In particular the following features are highly desirable for uniform UMTS UE implementation where appropriate:

- Mapping of numeric keys to European alphabetic keys to ensure compatible mnemonic dialing as defined in TS 22.030 [6],
- "+" key function to enable one key international access as defined in Annex A
- Structure of the MMI as described in TS 22.030 [6]
- Presentation of IMEI (International Mobile Equipment Identity) as defined in TS 22.030 [6]