3GPP TSG-T3 (USIM) #13
Tokyo, 21 – 24 February 2000

Document TP-000019
(Superseeds document T3-000093)

CHANGE REQUEST

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

3G 31.102	CR	005r1	Current Version:	V 3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-T#7	for approval	X	strategic		*(for SMG use only)*
list approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 1.1 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CRF-11.rtf*

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

Source: T3 **Date:** 14.03.2000

Subject: Mandatory support for Emergency Call Codes

Work item: TEI

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X

(releases phase2, 96, 97 and 98 apply only to GSM specifications)

Reason for change:
Alignment with 3G TS 22.101 v3.7.0 clause 8.4 :
"When a SIM/USIM is present, subscriber specific emergency call set-up MMI shall be provided. The operator shall specify preferred emergency call MMI(s) (e.g. 911 for US citizens or 110, 118 and 119 for Japanese citizens) for use in any (i.e. home or visited) PLMN. This shall be stored in the SIM/USIM and the ME shall read this and use any entry of these digits to set up an emergency call."

Clauses affected: 4.2.21, 5.1.1

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:


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.

[1] 3G TS 21.111: "USIM and IC Card Requirements".

[2] 3G TS 22.011: "Service accessibility".

[3] 3G TS 22.024: "Description of Charge Advice Information (CAI)".

[4] 3G TS 22.030: "Man-Machine Interface (MMI) of the Mobile Station (MS)".

[5] 3G TS 23.038: "Alphabets and language".

[6] 3G TS 23.040: "Technical realization of the Short Message Service (SMS) Point-to-Point (PP)".

[7] 3G TS 23.060 : "General Packet Radio Service (GPRS); Service description; Stage 2".

[8] 3G TS 23.073: "Support of Localised Service Area (SoLSA)".

[9] 3G TS 24.008: "Mobile Radio Interface Layer 3 specification".

[10] 3G TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".

[11] 3G TS 31.101: "UICC-Terminal Interface, Physical and Logical Characteristics".

[12] 3G TS 31.111: "USIM Application Toolkit (USAT)".

[13] 3G TS 33.102: "3G Security Architecture".

[14] 3G TS 33.103: "3G Security; Integration Guidelines".

[15] 3G TS 22.086: "Advice of charge (AoC) Supplementary Services - Stage 1".

[16] 3G TS 23.041: "Technical realization of Short Message Service Cell Broadcast (SMSCB)".

[17] GSM 02.07: "Mobile Stations (MS) features".

[18] GSM 11.11: "Specification of the Subscriber Identity Module – Mobile Equipment (SIM – ME) interface".

[19] ISO 639 (1988): "Code for the representation of names of languages".

[20] ISO/IEC 7816-4 (1995): "Identification cards - Integrated circuit(s) cards with contacts, Part 4: Interindustry commands for interchange".

[21] ISO/IEC 7816-5 (1994): "Identification cards - Integrated circuit(s) cards with contacts, Part 5: Numbering system and registration procedure for application identifiers ".

[22] ITU-T Recommendation E.164: "Numbering plan for the ISDN era".

[23] ITU-T Recommendation T.50: "International Alphabet No. 5". (ISO 646: 1983, "Information processing - ISO 7-bits coded characters set for information interchange".)

[24] 3G TS 22.101: "Service aspects; service principles".

4.2.21 EF_{ECC} (Emergency Call Codes)

This EF contains ~~up to 5~~ emergency call codes.

Identifier: '6FB7'	Structure: ~~transparent~~linear fixed	~~Optional~~ Mandatory
~~File~~ Record size size: ~~3n (n ≤ 5 ≥ 1)~~X+6 bytes	Update activity: low	

Access Conditions:

READ	ALW
UPDATE	ADM
DEACTIVATE	ADM
ACTIVATE	ADM

Bytes	Description	M/O	Length
1 – 3	Emergency Call Code ~~1~~	~~O~~M	3 bytes
4 – X+4~~6~~	Emergency Call Code Alpha Identifier~~2~~	O	~~3~~ X bytes
X+5 – X+6	Emergency Call Type Indicator	M	1 byte
~~(3n-2) - 3n~~	~~Emergency Call Code n~~	~~O~~	~~3 bytes~~

- Emergency Call Code

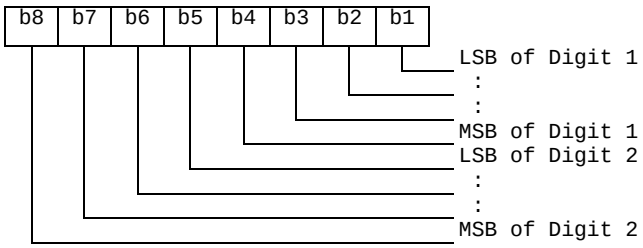
  Contents:

  Emergency Call Code

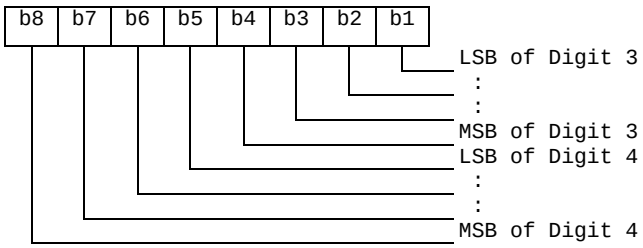
  Coding:

  the emergency call code is of a variable length with a maximum length of 6 digits. Each emergency call code is coded on three bytes, with each digit within the code being coded on four bits as shown below. If a code of less than 6 digits is chosen, then the unused nibbles shall be set to 'F'. If EF_{ECC} does not contain any valid number, the UE shall use the emergency numbers it stores for use in setting up an emergency call without a USIM.

  Byte 1:



  Byte 2:



- Emergency Call Code Alpha Identifier

  Contents:

  Information about the dialled emergency number to be displayed to the user

  Coding:

  this alpha-tagging shall use

  either

- the SMS default 7-bit coded alphabet as defined in 3G TS 23.038 [5] with bit 8 set to 0. The alpha identifier shall be left justified. Unused bytes shall be set to 'FF'.

or

- one of the UCS2 coded options as defined in the annex of 3G TS 31.101 [11].

- Emergency Call Type Indicator
  Contents:
  Set to RFU. Information to be sent to the network indicating the type of emergency call
  Coding:
  Coding according to 24.008 [9].

NOTE The coding is not yet defined and therefore this byte is set to RFU.

A terminal shall not interpret the Emergency Call Type Indicator that has its value set to RFU. Furthermore a terminal not supporting the emergency call type indication towards the network shall not interpret the Emergency Call Type Indicator byte in this EF.

5.1.1 USIM initialisation

After UICC activation (see 3G TS 31.101 [11]), the ME selects a USIM application. If no EF_{DIR} file is found or no USIM applications are listed in the EF_{DIR} file, the ME then tries to select the GSM application as specified in GSM 11.11 [18].

The ME ~~optionally attempts to select EF_{ECC}. If EF_{ECC} is available, the ME~~ requests the emergency call codes. For service requirements, see 3G TS 22.101 [24].

The ME requests the Language Indication. The ME keeps using the language selected during UICC activation by means of EF_{PL} (see 3G TS 31.101 [11]) if at least one of the following conditions holds:

- EF_{LI} is not available;
- EF_{LI} does not contain an entry corresponding to a language specified in ISO 639[19];
- the ME does not support any of the languages in EF_{LI}.

If none of the languages in the EFs is supported then the ME selects a default language.

The ME then runs the PIN verification procedure. If the PIN verification procedure is performed successfully, the ME then runs the application profile indication request procedure.

The ME performs the administrative information request.

The ME performs the USIM Service Table request.

For a USIM application requiring PROFILE DOWNLOAD, the ME shall perform the PROFILE DOWNLOAD procedure in accordance with 3G TS 31.111 [12].

If the FDN service is available the ME shall perform the following procedure. The procedure is tbd.

If all these procedures have been performed successfully then 3G session shall start. In all other cases 3G session shall not start.

Afterwards, the ME runs the following procedures:

- IMSI request;
- Access control information request;
- HPLMN search period request;
- PLMN selector request;
- Location Information request;
- Cipher key and integrity key request;
- Forbidden PLMN request;
- LSA information request;
- CBMID request;
- depending on the further services that are supported by both the ME and the USIM the corresponding EFs have to be read.

After the USIM initialisation has been completed successfully, the ME is ready for a 3G session and indicates this to the USIM be sending a particular STATUS command.