
Source: SA WG3
Title: CRs to 22.022: IMEI format for de-personalisation over the air
(Release 1999 / Rel-4)
Document for: Approval
Agenda Item: 7.3.3

SA doc#	Spec	CR	R	Phase	Subject	Cat	Current Version	WI	SA WG3 doc#
SP-020339	22.022	003		R99	IMEI format for de-personalisation over the air	F	3.1.0	Security	S3-020190
SP-020339	22.022	004		Rel-4	IMEI format for de-personalisation over the air	A	4.0.0	SEC1	S3-020191

A.4 Over-the-air de-personalisation

- a) The ME-specific de-personalisation SMS messages sent by the network to de-personalise the ME shall be coded according to TS 23.040 [6] with the TP-UD field coded as follows:

Character	Description
1 - 40	Operator specific text padded with spaces to character 40.
41 - 48	Network control key
49 - 56	Network subset control key
57 - 64	SP control key
65 - 72	Corporate control key
73 - 88	IMEI

For the IMEI and each control key, the most significant digit is coded first in the string, e.g. character 41 is the most significant digit of NCK. [As the IMEI is 15 digits long \(see TS 23.003 \[3\]\), the sixteenth digit present here is ignored by the ME during the de-personalization procedure and should be set to zero.](#)

All characters are coded according to the default alphabet described in TS 23.038 [5].

The string "FFFFFFFF" shall be used in place of a key to indicate that de-personalisation of that category is not required.

- b) The acknowledgement to the ME De-personalisation Short Message shall be a SMS-DELIVER-REPORT for RP-ACK as described in TS 23.040 [6] with the TP-User-Data coded according to the default alphabet described in TS 23.038 [5] as below:

Character	Description
1-16	IMEI of ME
17	Network personalisation status
18	Network subset personalisation status
19	SP personalisation status
20	Corporate personalisation status

[As the IMEI is 15 digits long \(see TS 23.003 \[3\]\), the sixteenth digit present here is ignored by the network during the de-personalization procedure and should be set to zero.](#)

Status codes shall indicate the resulting status of each personalisation category as below.

Status code	Description
0	Currently not personalised
1	Permanently not personalised
2	Personalised
3	IMEI mismatch
Other	RFU

If the IMEI of the ME does not match the IMEI included in the De-personalisation Short Message, then the status of all the personalisation categories shall be coded "IMEI mismatch".

- c) The format for the control keys stored on the SIM is specified in GSM 11.11 [8]. The format for the control keys stored on the USIM is specified in 3G TS 31.102 [9].

For the purposes of this TS, a SIM/USIM is said to support this feature if it is marked as both allocated and activated in the SIM/USIM service table.

The value "FF" is the default value to be used when no meaningful value for a key is represented. This value shall not be allocated as a key value.

CR-Form-v5

CHANGE REQUEST

⌘ **22.022 CR 004** ⌘ rev **-** ⌘ Current version: **4.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ IMEI format for de-personalisation over the air		
Source:	⌘ SA WG3		
Work item code:	⌘ SEC1	Date:	⌘ 15-04-2002
Category:	⌘ A	Release:	⌘ REL-4
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	

Reason for change:	⌘ The current text in annex A.4 indicates an IMEI coded on 16 digits, which is not in line with TS 23.003.		
Summary of change:	⌘ Text is corrected to be in line with TS 23.003		
Consequences if not approved:	⌘ Specification is not in line with other documents.		

Clauses affected:	⌘ A.4		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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