

**Source:** T3

**Title:** CRs to TS 31.122: USIM Conformance test specification

**Document for:** Approval

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This document contains the following change request:

T3-Doc	Spec	CR	Rev	Cat	Phase	Subject	Version-Current	Version-New	WI
T3-030138	31.122	015	-	F	R99	Correction to the returned FCP of the SELECT and the STATUS command	3.5.0	3.6.0	TEI

CR-Form-v7

## CHANGE REQUEST

№ **31.122 CR 015** № rev **-** № Current version: **3.5.0** №

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the № symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	№ Correction to the returned FCP of the SELECT and the STATUS command		
<b>Source:</b>	№ T3		
<b>Work item code:</b>	№ TEI	<b>Date:</b>	№ 12/02/2003
<b>Category:</b>	№ <b>F</b>	<b>Release:</b>	№ R99
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2	(GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96	(Release 1996)
	B (addition of feature),	R97	(Release 1997)
	C (functional modification of feature)	R98	(Release 1998)
	D (editorial modification)	R99	(Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Rel-4	(Release 4)
		Rel-5	(Release 5)
		Rel-6	(Release 6)

<b>Reason for change:</b>	№ Incorrect returned FCP-Template
<b>Summary of change:</b>	№ According to TS 102 221 (clause 11.1.1.4.6) the UICC characteristics byte is only mandatory to be returned in the FCP for the MF.
<b>Consequences if not approved:</b>	№ Wrong test

<b>Clauses affected:</b>	№ 6.8.1.1.2; 6.8.1.1.4; 6.8.1.2.4								
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"> </td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"> </td> <td style="padding: 2px;">N</td> </tr> </table>	Y	N		N		N	Other core specifications	№
	Y	N							
		N							
	N								
		Test specifications	№						
		O&M Specifications	№						
<b>Other comments:</b>	№								

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.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.

## 6.8.1.1 SELECT

### 6.8.1.1.1 Definition and applicability

It shall be mandatory for all cards complying with TS 102.221 [1] to support all functions described therein.

### 6.8.1.1.2 Conformance requirement

- CR1 This function shall select a file according to the methods described in subclause 8.4 of TS 102.221 [1].
- CR2 The function shall accept as an input:
- a file ID (FID);
  - an application ID (AID);
  - a path;
  - empty.
- CR3 If the selected file is the MF ~~or a DF~~, then the function shall output the file descriptor, file identifier, UICC characteristics, life cycle status integer, security attributes and PIN status.
- CR4 If the selected file is the a ADF, then the function shall output the file descriptor, DF name, ~~UICC characteristics~~, life cycle status integer, security attributes and PIN status.
- CR5 If the selected file is an EF, then the function shall output the file descriptor, file identifier, ~~UICC characteristics~~, security attributes, life cycle status integer and file size.
- CR6 After a successful selection the record pointer shall be undefined.
- CR7 If P2 = '0C' the function shall output only SW1 and SW2.
- CR8 If P1 = '00' and if P2 = '0C' and the data field is empty, or equal to '3F 00' then the function shall select the MF.
- CR9 If P1 = '00' and if the data field is equal to '7F FF' then the function shall select the ADF of the current application.
- CR10 It is mandatory for data objects to be provided in the order given in the description of each response.
- CR11 If the selected file is a DF, then the function shall output the file descriptor, file identifier, life cycle status integer, security attributes and PIN status.

Reference: TS 102.221 [1], subclause 11.1.1.

Test Group Reference (TGR): TGR\_USIM\_TP102.221\_CMD\_GC

Test Procedure Reference (TPR): TPR\_USIM\_TP102.221\_CMD\_GC\_SEL

### 6.8.1.1.3 Test purpose

To verify that the SELECT function conforms to the above requirements for the different file types available.

NOTE: CR1 is tested in subclause 6.5.4.

### 6.8.1.1.4 Method of test

#### Initial conditions

- The UICC shall be connected to a ME simulator.

#### Test procedure

- The ME simulator shall reset the UICC.

- b) The ME simulator shall send a SELECT command to the UICC to select DF<sub>TELECOM</sub>.

*The status returned by the UICC shall be SW1 = '90', SW2 = '00' – normal ending of the command [CR2a].*

*The FCP shall contain the following tags [CR113]:*

- Tag '82' (File Descriptor)

*The first byte shall be '38' or '78' (indicating a DF or ADF);*

- Tag '83' (File Identifier)

*The value shall be '7F 10' (indicating DF<sub>TELECOM</sub>);*

~~— Tag 'A5' (Proprietary information)~~

~~It shall contain tag '80' (UICC characteristics);~~

- Tag '8A' (Life Cycle Status Integer);

- Tag 'C6' (PIN Status Template DO)

*It shall contain tag '90' (PS\_DO).*

*The FCP shall contain exactly one of the following tags:*

- Tag '8C' (Compact format);

- Tag 'AB' (Expanded format);

- Tag '8B' (Referenced to Expanded Format).

*The TLV DOs with the above Tags shall be provided in FCP in order given in the Table 11.3 of subclause 11.1.1.3 of the TS 102.221 [1] [CR10].*

- c) The ME simulator shall send a SELECT command to the UICC to select the MF.

*The status returned by the UICC shall be SW1 = '90', SW2 = '00' – normal ending of the command [CR2a].*

*The FCP shall contain the following tags [CR3]:*

- Tag '82' (File Descriptor)

*The first byte shall be '38' or '78' (indicating a DF or ADF);*

- Tag '83' (File Identifier)

*The value shall be '3F 00' (indicating MF);*

- Tag 'A5' (Proprietary information)

*It shall contain tag '80' (UICC characteristics);*

- Tag '8A' (Life Cycle Status Integer);

- Tag 'C6' (PIN Status Template DO)

*It shall contain tag '90' (PS\_DO).*

*The FCP shall contain exactly one of the following tags:*

- Tag '8C' (Compact format);

- Tag 'AB' (Expanded format);

- Tag '8B' (Referenced to Expanded Format).

*The TLV DOs with the above Tags shall be provided in FCP in order given in the Table 11.3 of subclause 11.1.1.3 of the TS 102.221 [1] [CR10].*

- d) The ME simulator shall send a SELECT command to the UICC to select EF<sub>DIR</sub>.

*The status returned by the UICC shall be SW1 = '90', SW2 = '00' – normal ending of the command [CR2a].*

*The FCP shall contain the following tags [CR5]:*

- Tag '82' (File Descriptor)

*The first byte shall be '02' or '42' (indicating a linear fixed EF);*

*The length shall be '05' (i.e. containing record length etc);*

- Tag '83' (File Identifier)

*The value shall be '2F 00' (indicating EF<sub>DIR</sub>);*

~~— Tag 'A5' (Proprietary information)~~

~~It shall contain tag '80' (UICC characteristics);~~

- Tag '8A' (Life Cycle Status Integer);

- Tag '80' (File size).

*The FCP shall contain exactly one of the following tags:*

- Tag '8C' (Compact format);

- Tag 'AB' (Expanded format);

- Tag '8B' (Referenced to Expanded Format).

*The TLV DOs with the above Tags shall be provided in FCP in order given in the Table 11.4 of subclause 11.1.1.3 of the TS 102.221 [1] [CR10].*

- e) The ME simulator shall send a READ RECORD command using CURRENT mode to the UICC.

*The UICC shall return an error code appropriate to the command (e.g. SW1 = '6A', SW2 = '83' - Record not found) [CR6].*

- f) The ME simulator shall send a SELECT command with P2 = '0C' to the UICC to select the MF.

*The response from the UICC shall be only SW1 = '90', SW2 = '00' – normal ending of the command [CR7].*

- g) The ME simulator shall send a SELECT command to the UICC to select the EF<sub>ARR</sub> under DF<sub>TELECOM</sub> by path selection

*The response from the UICC shall be only SW1 = '90', SW2 = '00' – normal ending of the command.*

*The TLV DO with Tag '83' in the FCP shall indicate the current EF is EF<sub>ARR</sub> [CR2c].*

- h) The ME simulator shall send a SELECT command to the UICC to select the parent DF.

*The response from the UICC shall be only SW1 = '90', SW2 = '00' – normal ending of the command.*

*The TLV DO with Tag '83' in the FCP shall indicate the current DF is MF [CR2d].*

- i) The ME simulator shall send a SELECT command with AID to the UICC to select and activate the USIM application.

*The status returned by the UICC shall be SW1 = '90', SW2 = '00' – normal ending of the command [CR2b].*

*The FCP shall contain the following tags [CR4]:*

- Tag '82' (File Descriptor)

*The first byte shall be '38' or '78' (indicating a DF or ADF);*

- Tag '84' (DF name - AID)

The value shall be the AID of the USIM application;

~~Tag 'A5' (Proprietary information)~~

~~It shall contain tag '80' (UICC characteristics);~~

- Tag '8A' (Life Cycle Status Integer);
- Tag 'C6' (PIN Status Template DO)

It shall contain tag '90' (PS\_DO).

The FCP shall contain exactly one of the following tags:

- Tag '8C' (Compact format);
- Tag 'AB' (Expanded format);
- Tag '8B' (Referenced to Expanded Format).

The TLV DOs with the above Tags shall be provided in FCP in order given in the Table 11.4 of subclause 11.1.1.3 of the TS 102.221 [1] [CR10].

- j) The ME simulator shall send a SELECT command to the UICC to select DF<sub>TELECOM</sub>.
- k) The ME simulator shall send a SELECT command with P1 = '00' and data field equals to '7FFF' to the UICC to select the ADF of the current USIM application.

The status returned by the UICC shall be SW1 = '90', SW2 = '00' – normal ending of the command [CR9].

The FCP returned shall be as same as those returned in step i) above [CR4].

- l) The ME simulator shall send a SELECT command with P1 = '00' and data field equals to '3F00' to the UICC to select the MF.

The status returned by the UICC shall be SW1 = '90', SW2 = '00' – normal ending of the command [CR8].

The FCP returned shall be as same as those returned in step c) above [CR3].

- m) The ME simulator shall send a SELECT command with P1 = '00', P2 = '0C' and with empty data field to the UICC to select the MF.

The response from the UICC shall be only SW1 = '90', SW2 = '00' – normal ending of the command [CR7, CR8].

## 6.8.1.2 STATUS

### 6.8.1.2.1 Definition and applicability

It shall be mandatory for all cards complying with TS 102.221 [1] to support all functions described therein.

### 6.8.1.2.2 Conformance requirement

- CR1 If the parameter P2 = '00', then the STATUS function shall output the FCP of the currently selected MF, DF or ADF.
- CR2 If the parameter P2 = '01', then the STATUS function shall output the DF<sub>NAME</sub> TLV DO of the currently selected ADF.
- CR3 If the parameter P2 = '0C', then the STATUS function shall output only SW1 and SW2.

Reference: TS 102.221 [1], subclause 11.1.2.

Test Group Reference (TGR): TGR\_USIM\_TP102.221\_CMD\_GC

Test Procedure Reference (TPR): TPR\_USIM\_TP102.221\_CMD\_GC\_STATUS

### 6.8.1.2.3 Test purpose

To verify that the UICC conforms to the above requirements.

### 6.8.1.2.4 Method of test

#### Initial conditions

- 1) The UICC shall be connected to a ME simulator.

#### Test procedure

- a) The ME simulator shall reset the UICC.
- b) The ME simulator shall send a STATUS command with P2 = '00' to the UICC.

*The FCP shall contain the following tags [CR1]:*

- Tag '82' (File Descriptor)  
*The first byte shall be '38' or '78' (indicating a DF);*
- Tag '83' (File Identifier)  
*The value shall be '3F 00' (indicating MF);*
- Tag 'A5' (Proprietary information)  
*It shall contain tag '80' (UICC characteristics);*
- Tag '8A' (Life Cycle Status Integer);
- Tag 'C6' (PIN Status Template DO)  
*It shall contain tag '90' (PS\_DO).*

*The FCP shall contain exactly one of the following tags:*

- Tag '8C' (Compact format);
- Tag 'AB' (Expanded format);
- Tag '8B' (Referenced to Expanded Format).

- c) The ME simulator shall send a SELECT command to select DF<sub>TELECOM</sub>.
- d) The ME simulator shall send a STATUS command with P2 = '00' to the UICC.

*The FCP shall contain the following tags [CR1]:*

- Tag '82' (File Descriptor)  
*The first byte shall be '38' or '78' (indicating a DF);*
- Tag '83' (File Identifier)  
*The value shall be '7F 10' (indicating DF<sub>TELECOM</sub>);*
- ~~Tag 'A5' (Proprietary information)  
*It shall contain tag '80' (UICC characteristics);*~~
- Tag '8A' (Life Cycle Status Integer);
- Tag 'C6' (PIN Status Template DO)  
*It shall contain tag '90' (PS\_DO).*



The FCP shall contain exactly one of the following tags:

- Tag '8C' (Compact format);
- Tag 'AB' (Expanded format);
- Tag '8B' (Referenced to Expanded Format).

- e) The ME simulator shall send a STATUS command with P2 = '01' to the UICC.

The UICC shall return an error code appropriate to the command [CR2].

- f) The ME simulator shall send a SELECT command to the UICC to select and activate the USIM application.

- g) The ME simulator shall send a STATUS command with P2 = '00' to the UICC.

The FCP shall contain the following tags [CR1]:

- Tag '82' (File Descriptor)  
The first byte shall be '38' or '78' (indicating an ADF);

- Tag '84' (DF name - AID)  
The value shall be the AID of the USIM application;

- ~~Tag 'A5' (Proprietary information)  
It shall contain tag '80' (UICC characteristics);~~

- Tag '8A' (Life Cycle Status Integer);

- Tag 'C6' (PIN Status Template DO)  
It shall contain tag '90' (PS\_DO).

The FCP shall contain exactly one of the following tags:

- Tag '8C' (Compact format);
- Tag 'AB' (Expanded format);
- Tag '8B' (Referenced to Expanded Format).

- h) The ME simulator shall send a SELECT command to the UICC to select the DF<sub>PHONEBOOK</sub>.

- i) The ME simulator shall send a STATUS command with P2 = '00' to the UICC.

The FCP shall contain the following tags [CR1]:

- Tag '82' (File Descriptor)  
The first byte shall be '38' or '78' (indicating a DF);

- ~~Tag 'A5' (Proprietary information)  
It shall contain tag '80' (UICC characteristics);~~

- Tag '8A' (Life Cycle Status Integer);

- Tag 'C6' (PIN Status Template DO)  
It shall contain tag '90' (PS\_DO).

The FCP shall contain exactly one of the following tags:

- Tag '8C' (Compact format);
- Tag 'AB' (Expanded format);

- Tag '8B' (Referenced to Expanded Format).

j) The ME simulator shall send a STATUS command with P2 = '01' to the UICC.

*The following shall be true of the response data [CR2]:*

*Value of tag '84' shall be the AID of the USIM application.*

k) The ME simulator shall send a STATUS command with P2 = '0C' to the UICC.

*The following shall be true of the response data [CR3]:*

- *The response data from the UICC shall be only SW1 = '90', SW2 = '00' – normal ending of the command [CR3].*

l) The ME simulator shall send a SELECT command to select DF<sub>TELECOM</sub>.

m) The ME simulator shall send a STATUS command with P2 = '00' to the UICC.

*The FCP shall contain the following tags [CR1]:*

- Tag '82' (File Descriptor)

*The first byte shall be '38' or '78' (indicating a DF);*

- Tag '83' (File Identifier)

*The value shall be '7F 10' (indicating DF<sub>TELECOM</sub>);*

- ~~Tag 'A5' (Proprietary information)~~

~~*It shall contain tag '80' (UICC characteristics);*~~

- Tag '8A' (Life Cycle Status Integer);

- Tag 'C6' (PIN Status Template DO)

*It shall contain tag '90' (PS\_DO).*

*The FCP shall contain exactly one of the following tags:*

- Tag '8C' (Compact format);

- Tag 'AB' (Expanded format);

- Tag '8B' (Referenced to Expanded Format).

n) The ME simulator shall send a STATUS command with P2 = '01' to the UICC.

*The following shall be true of the response data [CR2]:*

*Value of tag '84' shall be the AID of the USIM application.*