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(Release 7)

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Contents

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Smart Card Platform (SCP).

It is based on work originally done in the 3GPP in TSG-terminals WG3.

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Introduction

The present document defines the Card Application Toolkit (CAT) test conformance for the Terminal.

The aim of the present document is to ensure interoperability between an UICC and a Terminal independently of the respective manufacturer, card issuer or operator.

Application specific tests for applications residing on an UICC are specified in TS 131 124 [9].

1 Scope

The present document describes the technical characteristics and methods of test for testing the Card Application Toolkit implemented in Terminals for the UICC, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3] and ETS 300 406 [4].

The present document is valid for Terminal implemented according to ETSI TS Release 4 or Release 5 or Release 6.

The present document covers the minimum characteristics considered necessary in order to provide sufficient performance for Terminal and to prevent interference to other services or to other users.

It does not necessarily include all the characteristics which may be required by a user or subscriber, nor does it necessarily represent the optimum performance achievable.

The present document is part of the ETSI-series of technical specifications. The present document neither replaces any of the other ETSI technical specifications or ETSI related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the NAA. The present document lists the requirements, and provides the methods of test for testing the Card Application Toolkit implemented in a Terminal for conformance to the ETSI standard.

For a full description of the system, reference should be made to all the ETSI technical specifications or ETSI related ETSs or ENs. Clause 2 provides a complete list of the ETSI technical specifications, ETSI related ETSs, ENs, and ETRs, on which this conformance test specifications is based.

If there is a difference between this present conformance document, and any other ETSI technical specification or ETSI related ETS or EN, then the other ETSI technical specification or ETSI related ETS or EN shall prevail.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

- In the case of a reference to a TC SCP document, a non specific reference implicitly refers to the latest version of that document in the same Release as the present document.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1] ETSI TS 102 223: "Smart Cards; Card Application Toolkit (CAT)".

[2] ISO/IEC 10646 (2003): "Information technology - Universal Multiple-Octet Coded Character Set (UCS)".

[3] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[4] ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[5] ETSI TS 124 008: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 (3GPP TS 24.008)".

[6] ETSI TS 127 007: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); AT command set for User Equipment (UE) (3GPP TS 27.007)".

[7] ISO/IEC 7816-3 (1997): "Identification cards - Integrated circuit cards - Part 3: Cards with contacts - Electrical interface and transmission protocols".

[8] ANSI TIA/EIA-41-D: "Cellular Radiotelecommunications Intersystem Operations (ANSI/TIA/EIA-41-D-97)".

[9] ETSI TS 131 124: "Universal Mobile Telecommunications System (UMTS); Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124)".

[10] ETSI ETR 028: "Radio Equipment and Systems (RES); Uncertainties in the measurement of mobile radio equipment characteristics".

[11] ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit (SAT) for the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface" (3GPP TS 11.14).

[12] ETSI TS 100 607-4: "Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 4: Subscriber Interface Module (SIM) application toolkit conformance specification (3GPP TS 11.10-4)".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definitions and abbreviations

3.1 Terminal definition and configurations

The terminal definition and configurations specified in the present document shall apply.

3.2 Applicability

3.2.1 Applicability of the present document

The present document applies to a terminal equipment that supports the Card Application Toolkit optional feature according to TS 102 223 [1].

3.2.2 Applicability of the individual tests

Table A.1 lists the optional features for which the supplier of the implementation states the support.

3.2.3 Applicability to terminal equipment

The applicability to terminal equipment specified in table B.1 in clause 3.4 of the present document shall apply, unless otherwise specified.

Terminals, which require a specific NAA to be present on the UICC, shall be tested according to the specific Card Application Toolkit enabled NAA dependent test specification (e.g. TS 131 124 [9] for USIM application, TS 100 607-4 [12] for SIM application). If there is no test specification defined for a specific Card Application Toolkit enabled NAA, terminals may be tested according to the present document. In this case, the simulated UICC shall include the specific NAA application, but the configuration and additional requirements of the specific Card Application Toolkit enabled NAA are out of scope in the present document.

3.2.4 Definitions

Void.

3.2.4.1 Format of the table of optional features

Option

The optional feature supported or not by the implementation.

Support Answer notation

The support columns shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [3], are used for the support column in the tables below.

Y or y	supported by the implementation
N or n	not supported by the implementation
N/A, n/a or -	no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status)

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

3.2.4.2 Format of the applicability table

The applicability of every test in table B.1 is formally expressed by the use of Boolean expression defined in the following clause.

The columns in table B.1 have the following meaning:

- In the "Item" column a local entry number for the requirement in the table is given.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "Release" column gives the Release applicable and onwards, for the item in the "Description" column.
- The "Test Sequence(s)" column gives a reference to the test sequence number(s) detailed in the present document and required to validate the implementation of the corresponding item in the "Description" column.
- For a given Release, the corresponding "Rel X Terminal" column lists the tests required for a Terminal to be declared compliant to this Release.
- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, which have been made in the implementation.
- The "Terminal Profile" column gives a reference to the corresponding bit that needs to be present in the Terminal Profile.

3.2.4.3 Status and notations

The "Release X Terminal" columns show the status of the entries as follows:

The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

M	mandatory - the capability is required to be supported.
O	optional - the capability may be supported or not.
N/A	not applicable - in the given context, it is impossible to use the capability.
X	prohibited (excluded) - there is a requirement not to use this capability in the given context.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.
Ci	conditional - the requirement on the capability ("M", "O", "X" or "N/A") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF... THEN (IF... THEN... ELSE...) ELSE..." shall be used to avoid ambiguities.

References to items

For each possible item answer (answer in the support column) there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE: A.1/4 is the reference to the answer of item 4 in table A.1.

3.3 Table of optional features

Support of Card Application Toolkit is optional for Terminal. However, if a Terminal states conformance with a specific SCP release, it is mandatory for the Terminal to support all functions of that release, as stated in table A.1.

The support of letter classes, which specify mainly Terminal hardware dependent features, is optional for the Terminal and may supplement the Card Application Toolkit functionality described in the present document. If a Terminal states conformance to a letter class, it is mandatory to support all functions within the respective letter class.

The supplier of the implementation shall state the support of possible options in table A.1.

Table A.1: Options

Item	Option	Status	Support	Mnemonic
1	Capability Configuration parameter	M		O_Cap_Conf
2	Sustained text	M		O_sust_text
3	UCS2 coding scheme for Entry	O		O_Ucs2_Entry
4	Extended Text String	M		O_Ext_Str
5	Help information	O		O_Help
6	Icons	O		O_Icons
7	Class A: Dual Slot	O		O_Dual_Slot
8	Detachable reader	O		O_Detach_Rdr
9	Class B: RUN AT	O		O_Run_At
10	Class C: LAUNCH BROWSER	O		O_LB
11	Class D: Soft keys	O		O_Soft_key
12	Class E: B.I.P related to CSD	O		O_BIP_CSD
13	Screen sizing parameters	O		O_Scr_Siz
14	Screen Resizing	O		O_Scr_Resiz
15	UCS2 coding scheme for Display	O		O_Ucs2_Disp
16	Terminal supporting GPRS	O		O_GPRS
17	Terminal supporting UDP	O		O_UDP
18	Terminal supporting TCP	O		O_TCP

Item	Option	Status	Support	Mnemonic
19	Redial in Set Up Call	O		O_Redial
20	Terminal decision to respond with "No response from user" in finite time	O		O_D_NoResp
21	Class E: B.I.P related to GPRS	O		O_BIP_GPRS
22	Terminal supporting Called Party Subaddress	O		O_CP_Subaddr
23	Immediate response	O		O_Imm_Resp
24	Variable Timeout	O		O_Duration
25	Void			
26	Class F: B.I.P related to local bearer	O		O_BIP_Local
27	BlueTooth Support	O		O_BT
28	IrDA Support	O		O_IrDA
29	RS232 Support	O		O_RS232
30	USB Support	O		O_USB
31	WML Browser Support	O		O_WML
32	XHTML Browser Support	O		O_XHTML
33	HTML Browser Support	O		O_HTML
34	CHTML Browser Support	O		O_CHTML
35	Class G: Battery Data	O		O_Batt
36	Class H: Multimedia Call support	O		O_Xmedia_Call
37	Class I: Frame support	O		O_Frames
38	Class J: Multimedia Support	O		O_MMS
39	Void			
40	Void			
41	UCS2 in Cyrillic	O		O_UCS2_Cyrillic
42	UCS2 in Chinese	O		O_UCS2_Chinese
43	UCS2 in Katakana	O		O_UCS2_Katakana
44	Text attributes - Alignment left	O		O_TAT_AL
45	Text attributes - Alignment center	O		O_TAT_AC
46	Text attributes - Alignment right	O		O_TAT_AR
47	Text attributes - Font size normal	O		O_TAT_FSN
48	Text attributes - Font size large	O		O_TAT_FSL
49	Text attributes - Font size small	O		O_TAT_FSS
50	Text attributes - Style normal	O		O_TAT_SN
51	Text attributes - Style bold	O		O_TAT_SB
52	Text attributes - Style italic	O		O_TAT_SI
53	Text attributes - Style underlined	O		O_TAT_SU
54	Text attributes - Style strikethrough	O		O_TAT_SS
55	Text attributes - Style text foreground colour	O		O_TAT_STFC
56	Text attributes - Style text background colour	O		O_TAT_STFB
57	Terminal supporting "+CGMI" in combination with Run AT Command	O		O_+CGMI
58	Class E: Terminal supports TCP, UICC in Server Mode	O		O_TCP_UICC_ServerMode
59	Terminal supports selection of default item in Select Item	O		O_Select_Item_Default_Item
60	Preferred buffer size supported by the terminal for Open Channel command is greater than 0 byte and less than 65535 bytes	O		O_BUFFER_SIZE
61	Class E: Terminal supports TCP, Terminal in Server Mode	O		O_TCP_Terminal_ServerMode
62	Class E: Terminal supports UDP, Terminal in Server Mode	O		O_UDP_Terminal_ServerMode
63	Class K: Terminal Applications	O		O_Terminal_Applications

3.4 Applicability table

Table B.1: Applicability of tests

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
1	**PROFILE DOWNLOAD 27.22.1**	Rel-4	1	M	M	M	M	E.1/1	
2	**Contents of the TERMINAL PROFILE command 27.22.2**	Rel-4		M	M	M	M	E.1/1	
3	**Servicing of Proactive UICC Commands 27.22.3**	Rel-4		M	M	M	M		
4	**DISPLAY TEXT 27.22.4.1**								
	Unpacked	Rel-4	1.1	M	M	M	M	E.1/17	
	Screen busy	Rel-4	1.2	M	M	M	M	E.1/17	
	high priority	Rel-4	1.3	M	M	M	M	E.1/17	
	Packed	Rel-4	1.4	M	M	M	M	E.1/17	
	Clear after delay	Rel-4	1.5	M	M	M	M	E.1/17	
	Long text up to 160 bytes	Rel-4	1.6	M	M	M	M	E.1/17	
	Backwards move in Proactive UICC session	Rel-4	1.7	M	M	M	M	E.1/17	
	Session terminated by user	Rel-4	1.8	M	M	M	M	E.1/17	
	Command not understood by Terminal	Rel-4	1.9	M	M	M	M	E.1/17	
	No response from user	Rel-4	2.1	C120	C120	C120	C120	E.1/17	
	Extension Text	Rel-4	3.1	M	M	M	M	E.1/17 AND E.1/16	
	Sustained text	Rel-4	4.1, 4.2, 4.3	M	M	M	M	E.1/17 AND E.1/65	
	Icons	Rel-4	5.1, 5.2, 5.3	C108	C108	C108	C108	E.1/17	
	UCS2 display in Cyrillic	Rel-4	6.1	C118	C118	C118	C118	E.1/17 AND E.1/15	
	Variable Timeout	Rel-4	7.1	C126	C126	C126	C126	E.1/17 AND E.1/137	
	Text attribute - left alignment	Rel-5	8.1		C146	C146	C146	E.1/17 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	8.2		C147	C147	C147	E.1/17 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	8.3		C148	C148	C148	E.1/17 AND E.1/124 AND E.1/219	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - large font size	Rel-5	8.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/17 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	8.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/17 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	8.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/17 AND E.1/124 AND E.1/226 AND E.1/225	
	Text attribute - italic on	Rel-5	8.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/17 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute - underlined on	Rel-5	8.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/17 AND E.1/124 AND E.1/225 AND E.1/228	
	Text attribute -strikethrough on	Rel-5	8.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/17 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	8.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/17 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 display_in Chinese	Rel-4	9.1		C143	C143	C143	E.1/17 AND E.1/15	
	UCS2 display_in Katakana	Rel-4	10.1		C145	C145	C145	E.1/17 AND E.1/15	
	Frames	Rel-6	TBD			C133	C133	E.1/17 AND E.1/177 AND E.1/178	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
5	**GET INKEY 27.22.4.2**								
	Prompt unpacked	Rel-4	1.1	M	M	M	M	E.1/18	
	Prompt packed	Rel-4	1.2	M	M	M	M	E.1/18	
	Backwards move in UICC session	Rel-4	1.3	M	M	M	M	E.1/18	
	Session terminated by user	Rel-4	1.4	M	M	M	M	E.1/18	
	SMS alphabet	Rel-4	1.5	M	M	M	M	E.1/18	
	Long text up to 160 bytes	Rel-4	1.6	M	M	M	M	E.1/18	
	No response from user	Rel-4	2.1	C120	C120	C120	C120	E.1/18	
	UCS2 display in Cyrillic	Rel-4	3.1	C118	C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 display in Cyrillic, Long text up to 70 chars	Rel-4	3.2	C118	C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 format of entry in Russian	Rel-4	4.1	C105	C105	C105	C105	E.1/18 AND E.1/14	
	"Yes/No" response	Rel-4	5.1	M	M	M	M	E.1/18 AND E.1/60	
	Icons	Rel-4	6.1, 6.2, 6.3, 6.4	C108	C108	C108	C108	E.1/18	
	Help information	Rel-4	7.1	C107	C107	C107	C107	E.1/18	
	Variable Timeout	Rel-4	8.1	C126	C126	C126	C126	E.1/18 AND E.1/140	
	Text attribute - left alignment	Rel-5	9.1		C146	C146	C146	E.1/18 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	9.2		C147	C147	C147	E.1/18 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	9.3		C148	C148	C148	E.1/18 AND E.1/124 AND E.1/219	
	Text attribute - large font size	Rel-5	9.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/18 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	9.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/18 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	9.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/18 AND E.1/124 E.1/226 AND E.1/225	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - italic on	Rel-5	9.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/18 AND E.1/124 E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	9.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/18 AND E.1/124 E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	9.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/18 AND E.1/124 E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	9.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/18 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 display in Chinese	Rel-4	10.1, 10.2		C143	C143	C143	E.1/18 AND E.1/15	
	UCS2 format of entry in Chinese	Rel-4	11.1		C142	C142	C142	E.1/18 AND E.1/14	
	UCS2 display in Katakana	Rel-4	12.1		C145	C145	C145	E.1/18 AND E.1/15	
	UCS2 format of entry in Katagana	Rel-4	13.1		C144	C144	C144	E.1/18 AND E.1/14	
	Frames	Rel-6	TBD			C133	C133	E.1/19 AND E.1/177 AND E.1/178	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
6	**GET INPUT 27.22.4.3**								
	Input unpacked	Rel-4	1.1	M	M	M	M	E.1/19	
	Input packed	Rel-4	1.2	M	M	M	M	E.1/19	
	SMS alphabet	Rel-4	1.3	M	M	M	M	E.1/19	
	Hidden input	Rel-4	1.4	M	M	M	M	E.1/19	
	Min / max acceptable length	Rel-4	1.5	M	M	M	M	E.1/19	
	Backwards move in UICC session	Rel-4	1.6	M	M	M	M	E.1/19	
	Session terminated by user	Rel-4	1.7	M	M	M	M	E.1/19	
	Prompt text up to 160 bytes	Rel-4	1.8	M	M	M	M	E.1/19	
	SMS default alphabet, Terminal to echo text, packing not required	Rel-4	1.9	M	M	M	M	E.1/19	
	Null length for the text string	Rel-4	1.10	M	M	M	M	E.1/19	
	No response from user	Rel-4	2.1	C120	C120	C120	C120	E.1/19	
	UCS2 display in Cyrillic	Rel-4	3.1, 3.2	C118	C118	C118	C118	E.1/19 AND E.1/15	
	UCS2 entry in Cyrillic	Rel-4	4.1, 4.2	C105	C105	C105	C105	E.1/19 AND E.1/14	
	Default text for the input	Rel-4	5.1, 5.2	M	M	M	M	E.1/19	
	Icons	Rel-4	6.1, 6.2, 6.3, 6.4	C108	C108	C108	C108	E.1/19	
	Help information	Rel-4	7.1	C107	C107	C107	C107	E.1/19	
	Text attribute - left alignment	Rel-5	8.1		C146	C146	C146	E.1/19 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	8.2		C147	C147	C147	E.1/19 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	8.3		C148	C148	C148	E.1/19 AND E.1/124 AND E.1/219	
	Text attribute - large font size	Rel-5	8.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/19 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	8.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/19 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	8.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/19 AND E.1/124 AND E.1/226 AND E.1/225	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - italic on	Rel-5	8.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/19 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	8.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/19 AND E.1/124 AND E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	8.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/19 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	8.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/19 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 display in Chinese	Rel-4	9.1, 9.2	C143	C143	C143	C143	E.1/19 AND E.1/15	
	UCS2 entry in Chinese	Rel-4	10.1, 10.2	C142	C142	C142	C142	E.1/19 AND E.1/14	
	UCS2 display in Katakana	Rel-4	11.1, 11.2	C145	C145	C145	C145	E.1/19 AND E.1/15	
	UCS2 entry in Katakana	Rel-4	12.1, 12.2	C144	C144	C144	C144	E.1/19 AND E.1/14	
	Frames	Rel-6	TBD			C133	C133	E.1/19 AND E.1/177 AND E.1/178	
7	**MORE TIME 27.22.4.4**	Rel-4	1.1	M	M	M	M	E.1/20	
8	**PLAY TONE 27.22.4.5**								
	Play all tones	Rel-4	1.1	M	M	M	M	E.1/21	
	UCS2 display in Cyrillic	Rel-4	2.1	C118	C118	C118	C118	E.1/21 AND E.1/15	
	Icons	Rel-4	3.1, 3.2,3.3, 3.4	C108	C108	C108	C108	E.1/21	
	Text attribute - left alignment	Rel-5	4.1		C146	C146	C146	E.1/21 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	4.2		C147	C147	C147	E.1/21 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	4.3		C148	C148	C148	E.1/21 AND E.1/124 AND E.1/219	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - large font size	Rel-5	4.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/21 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	4.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/21 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	4.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/21 AND E.1/124 AND E.1/226 AND E.1/225	
	Text attribute - italic on	Rel-5	4.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/21 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	4.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/21 AND E.1/124 AND E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	4.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/21 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	4.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/21 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 display in Chinese	Rel-4	5.1		C143	C143	C143	E.1/21 AND E.1/15	
	UCS2 display in Katakana	Rel-4	6.1		C145	C145	C145	E.1/21 AND E.1/15	
	Frames	Rel-6	TBD			C133	C133	E.1/21 AND E.1/177 AND E.1/178	
	Themed and Melody tones	Rel-6	TBD			C138	C138	E.1/21	
9	**POLL INTERVAL 27.22.4.6**								
	Duration	Rel-4	1.1	M	M	M	M	E.1/22	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
10	**REFRESH 27.22.4.7**								
	NAA Initialization and Full File Change Notification	Rel-4	N/A					E.1/24	
	File Change Notification	Rel-4	1.2	M	M	M	M	E.1/24	
	NAA Initialization and File Change Notification	Rel-4	N/A					E.1/24	
	NAA Initialization	Rel-4	N/A					E.1/24	
	UICC Reset	Rel-4	1.5	M	M	M	M	E.1/24	
	NAA Application Reset	Rel-4	N/A					E.1/24	
	NAA Session Reset	Rel-4	N/A					E.1/24	
11	**SET UP MENU 27.22.4.8**								
	Set up, menu selection, replace and remove menu	Rel-4	1.1	M	M	M	M	E.1/30 AND E.1/4	
	Large menu	Rel-4	1.2	M	M	M	M	E.1/30 AND E.1/4	
	Help information	Rel-4	2.1	C107	C107	C107	C107	E.1/30 AND E.1/4	
	Next action indicator	Rel-4	3.1	M	M	M	M	E.1/30	
	Icons	Rel-4	4.1, 4.2	C108	C108	C108	C108	E.1/30	
	Soft key access	Rel-4	5.1	C112	C112	C112	C112	E.1/30 AND E.1/74	
	Text attribute	Rel-5	6.1		C146	C146	C146	E.1/30 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	6.2		C147	C147	C147	E.1/30 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	6.3		C148	C148	C148	E.1/30 AND E.1/124 AND E.1/219	
	Text attribute - large font size	Rel-5	6.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/30 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	6.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/30 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	6.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/30 AND E.1/124 AND E.1/226 AND E.1/225	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - italic on	Rel-5	6.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/30 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	6.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/30 AND E.1/124 AND E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	6.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/30 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	6.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/30 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 Display in Cyrillic	Rel-4	7.1	C118	C118	C118	C118	E.1/39 AND E.1/15	
	UCS2 Display in Chinese	Rel-4	8.1		C143	C143	C143	E.1/39 AND E.1/15	
	UCS2 Display in Katakana	Rel-4	9.1		C145	C145	C145	E.1/39 AND E.1/15	
12	**SELECT ITEM 27.22.4.9**								
	Mandatory features	Rel-4	1.1	M	M	M	M	E.1/25	
	Large menu	Rel-4	1.2, 1.3, 1.6	M	M	M	M	E.1/25	
	Backwards move	Rel-4	1.4	M	M	M	M	E.1/25	
	User termination	Rel-4	1.5	M	M	M	M	E.1/25	
	Next action indicator	Rel-4	2.1	M	M	M	M	E.1/25	
	Default selected item	Rel-4	3.1	M	M	M	M	E.1/25	
	Help information	Rel-4	4.1	C107	C107	C107	C107		
	Icons	Rel-4	5.1, 5.2	C108	C108	C108	C108	E.1/25	
	Presentation style	Rel-4	6.1, 6.2	M	M	M	M	E.1/25	
	Soft keys	Rel-4	7.1	C112	C112	C112	C112	E.1/25 AND E.1/73	
	No Response from user	Rel-4	8.1	C120	C120	C120	C120	E.1/25	
	Text attribute - left alignment	Rel-5	9.1		C146	C146	C146	E.1/25 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	9.2		C147	C147	C147	E.1/25 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	9.3		C148	C148	C148	E.1/25 AND E.1/124 AND E.1/219	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - large font size	Rel-5	9.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/25 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	9.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/25 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	9.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/25 AND E.1/124 AND E.1/226 AND E.1/225	
	Text attribute - italic on	Rel-5	9.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/25 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	9.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/25 AND E.1/124 AND E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	9.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/25 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	9.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/25 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 Display in Cyrillic	Rel-4	10.1,10.2,10.3	C118	C118	C118	C118	E.1/25 AND E.1/15	
	UCS2 Display in Chinese	Rel-4	11.1		C143	C143	C143	E.1/25 AND E.1/15	
	UCS2 Display in Katakana	Rel-4	12.1,12.2,12.3		C145	C145	C145	E.1/25 AND E.1/15	
	Frames	Rel-6	TBD			C133	C133	E.1/25 AND E.1/177 AND E.1/178	
13	**SEND SMS 27.22.4.10**	Rel-4	N/A					E.1/26	
14	**Void**								
15	**Void 27.22.4.12**								
16	**SET UP CALL 27.22.4.13**	Rel-4	N/A					E.1/29	
17	**POLLING OFF 27.22.4.14**	Rel-4	1.1	M	M	M	M	E.1/23	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
18	**PROVIDE LOCAL INFO 27.22.4.15**								
	Location Information according to current NAA	Rel-4	N/A					E.1/31	
	IMEI of the Terminal	Rel-4	1.2	M	M	M	M	E.1/31	
	Network Measurement results according to current NAA	Rel-4	N/A					E.1/32 AND E.1/67	
	Date, time and time zone	Rel-4	1.4	M	M	M	M	E.1/59	
	Language setting	Rel-4	1.5	M	M	M	M	E.1/68	
	Void								
	Access Technology	Rel-4	N/A					E.1/72	
	ESN of the terminal	Rel-4	1.8	M	M	M	M	E.1/141	
	IMEISV of the terminal	Rel-6	1.9			M	M	E.1/143	
	Search Mode	Rel-6	N/A					E.1/144	
	Charge State of the Battery	Rel-6	1.11			C139	C139	E.1/170	
	Void								
19	**SET UP EVENT LIST 27.22.4.16**								
	User Activity event	Rel-4	1.1	M	M	M	M	E.1/33 AND E.1/35	
	Replace by new event list	Rel-4	1.2	M	M	M	M	E.1/33 AND E.1/35 AND E.1/36	
	Remove event	Rel-4	1.3	M	M	M	M	E.1/33 AND E.1/35	
	Remove Event on Terminal Power Cycle	Rel-4	1.4	M	M	M	M	E.1/33 AND E.1/35	
20	**PERFORM CARD APDU 27.22.4.17**								
	Additional card inserted, Select MF and Get Response	Rel-4	1.1	C109	C109	C109	C109	E.1/51	
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	Rel-4	1.2	C109	C109	C109	C109	E.1/51	
	Additional card inserted, card powered off	Rel-4	1.3	C109	C109	C109	C109	E.1/51	
	No card inserted, card powered off	Rel-4	1.4	C109	C109	C109	C109	E.1/51	
	Invalid card reader identifier	Rel-4	1.5	C109	C109	C109	C109	E.1/51	
	Detachable reader	Rel-4	2.1	C116	C116	C116	C116	E.1/51	
21	**POWER OFF CARD 27.22.4.18**								
	Additional card inserted	Rel-4	1.1	C109	C109	C109	C109	E.1/50	
	No card inserted	Rel-4	1.2	C109	C109	C109	C109	E.1/50	
	Detachable reader	Rel-4	2.1	C109	C109	C109	C109	E.1/50	
22	**POWER ON CARD 27.22.4.19**								
	Additional card inserted	Rel-4	1.1	C109	C109	C109	C109	E.1/49	
	No ATR	Rel-4	1.2	C109	C109	C109	C109	E.1/49	
	No card inserted	Rel-4	1.3	C109	C109	C109	C109	E.1/49	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Detachable reader	Rel-4	2.1	C116	C116	C116	C116	E.1/49	
23	**GET READER STATUS 27.22.4.20**								
	Additional card inserted, card powered	Rel-4	1.1	C109	C109	C109	C109	E.1/52	
	Additional card inserted, card not powered	Rel-4	1.2	C109	C109	C109	C109	E.1/52	
	Additional card inserted, card not present	Rel-4	1.3	C109	C109	C109	C109	E.1/52	
	Detachable reader	Rel-4	2.1	C116	C116	C116	C116	E.1/52	
24	**TIMER MANAGEMENT 27.22.4.21.1**								
	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	Rel-4	1.1	M	M	M	M	E.1/57 AND E.1/58	
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	Rel-4	1.2	M	M	M	M	E.1/57 AND E.1/58	
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	Rel-4	1.3	M	M	M	M	E.1/57 AND E.1/58	
	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	Rel-4	1.4	M	M	M	M	E.1/57 AND E.1/58	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	Rel-4	1.5	M	M	M	M	E.1/57 AND E.1/58	
	Start 8 timers successfully	Rel-4	1.6	M	M	M	M	E.1/57 AND E.1/58	
25	**ENVELOPE TIMER EXPIRATION 27.22.4.21.2**								
	Pending proactive UICC command	Rel-4	2.1	M	M	M	M	E.1/6 AND E.1/57	
	Card application toolkit busy	Rel-4	2.2	M	M	M	M	E.1/6 AND E.1/57 AND E.1/20	
26	**SET UP IDLE MODE TEXT 27.22.4.22**								
	Display idle mode text	Rel-4	1.1	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Replace idle mode text	Rel-4	1.2	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Remove idle mode test	Rel-4	1.3	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Competing information on Terminal display	Rel-4	1.4	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Terminal powered cycled	Rel-4	1.5	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Refresh with NAA initialization	Rel-4	1.6	M	M	M	M	E.1/61 AND E.124 AND E.1/33 AND E.1/39	
	Large text string	Rel-4	1.7	M	M	M	M	E.1/61 AND E.1/33 AND E.1/39	
	Icons	Rel-4	2.1, 2.2, 2.3, 2.4	C108	C108	C108	C108	E.1/61 AND E.1/39	
	UCS2 display in Cyrillic	Rel-4	3.1	C118	C118	C118	C118	E.1/61 AND E.1/15 AND E.1/39	
	Text attribute - left alignment	Rel-5	4.1		C146	C146	C146	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	4.2		C147	C147	C147	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	4.3		C148	C148	C148	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/219	
	Text attribute - large font size	Rel-5	4.4		C150 AND C149	C150 AND C149	C150 AND C149	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	4.5		C151 AND C149	C151 AND C149	C151 AND C149	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/222 AND E.1/220	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - bold on	Rel-5	4.6		C153 AND C152	C153 AND C152	C153 AND C152	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/226 AND E.1/225	
	Text attribute - italic on	Rel-5	4.7		C154 AND C152	C154 AND C152	C154 AND C152	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	4.8		C155 AND C152	C155 AND C152	C155 AND C152	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	4.9		C156 AND C152	C156 AND C152	C156 AND C152	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	4.10		C157 AND C158	C157 AND C158	C157 AND C158	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/230 AND E.1/231	
	UCS2 display in Chinese	Rel-4	5.1		C143	C143	C143	E.1/61 AND E.1/15 AND E.1/39	
	UCS2 display in Katakana	Rel-4	6.1		C145	C145	C145	E.1/61 AND E.1/15 AND E.1/39	
	Frames	Rel-6	TBD			C133	C133	E.1/61 AND E.1/177 AND E.1/178	
27	**RUN AT COMMAND 27.22.4.23**								
	No alpha Identifier	Rel-4	1.1	C110	C110	C110	C110	E.1/62	
	null data alpha identifier presented	Rel-4	1.2	C110	C110	C110	C110	E.1/62	
	alpha identifier presented	Rel-4	1.3	C110	C110	C110	C110	E.1/62	
	Icons	Rel-4	2.1, 2.2, 2.3, 2.4, 2.5	C114	C114	C114	C114	E.1/62	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	Text attribute - left alignment	Rel-5	3.1		C110 AND C146	C110 AND C146	C110 AND C146	E.1/62 AND E.1/124 AND E.1/217	
	Text attribute - center alignment	Rel-5	3.2		C110 AND C147	C110 AND C147	C110 AND C147	E.1/62 AND E.1/124 AND E.1/218	
	Text attribute - right alignment	Rel-5	3.3		C110 AND C148	C110 AND C148	C110 AND C148	E.1/62 AND E.1/124 AND E.1/219	
	Text attribute - large font size	Rel-5	3.4		C110 AND C150 AND C149	C110 AND C150 AND C149	C110 AND C150 AND C149	E.1/124 AND E.1/221 AND E.1/220	
	Text attribute - small font size	Rel-5	3.5		C110 AND C151 AND C149	C110 AND C151 AND C149	C110 AND C151 AND C149	E.1/62 AND E.1/124 AND E.1/222 AND E.1/220	
	Text attribute - bold on	Rel-5	3.6		C110 AND C153 AND C152	C110 AND C153 AND C152	C110 AND C153 AND C152	E.1/62 AND E.1/124 AND E.1/226 AND E.1/225	
	Text attribute - italic on	Rel-5	3.7		C110 AND C154 AND C152	C110 AND C154 AND C152	C110 AND C154 AND C152	E.1/62 AND E.1/124 AND E.1/227 AND E.1/225	
	Text attribute -underlined on	Rel-5	3.8		C110 AND C155 AND C152	C110 AND C155 AND C152	C110 AND C155 AND C152	E.1/62 AND E.1/124 AND E.1/228 AND E.1/225	
	Text attribute -strikethrough on	Rel-5	3.9		C110 AND C156 AND C152	C110 AND C156 AND C152	C110 AND C156 AND C152	E.1/62 AND E.1/124 AND E.1/229 AND E.1/225	
	Text attribute - foreground and background colours	Rel-5	3.10		C110 AND C157 AND C158	C110 AND C157 AND C158	C110 AND C157 AND C158	E.1/62 AND E.1/124 AND E.1/230 AND E.1/231	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	UCS2 display in Cyrillic	Rel-4	4.1	C159	C1598	C159	C159	E.1/62 AND E.1/15	
	UCS2 display in Chinese	Rel-4	5.1		C160	C160	C160	E.1/62 AND E.1/15	
	UCS2 display in Katakana	Rel-4	6.1		C161	C161	C161	E.1/62 AND E.1/15	
	Frames	Rel-6	TBD			C135	C135	E.1/62 AND E.1/177 AND E.1/178	
28	**SEND DTMF 27.22.4.24**	Rel-4	N/A					E.1/66	
29	**LANGUAGE NOTIFICATION 27.22.4.25**								
	Specific language notification	Rel-4	1.1	M	M	M	M	E.1/70	
	Non specific language notification	Rel-4	1.2	M	M	M	M	E.1/70	
30	**LAUNCH BROWSER 27.22.4.26**	Rel-4	N/A					E.1/71	
31	**OPEN CHANNEL 27.22.4.27**								
	Void	Void							
	Open Channel (related to GPRS)	Rel-4	N/A					E.1/89 AND E.1/98	
	Open Channel (default bearer)	Rel-4	N/A					E.1/89 AND E.1/98	
	Open Channel (Local Bearer)	Rel-4	TBD					E.1/89 AND E.1/98	
	Open Channel (GPRS, support of Text Attribute)	Rel-5	N/A					E.1/89 AND E.1/98	
	Open Channel (related to UICC Server Mode)	Rel-7	6.1				C162	E.1/89 AND E.1/131	
	Open Channel, TCP in LISTEN state, command performed with modification	Rel-7	6.2				C163	E.1/89 AND E.1/131	
	Open Channel (related to Terminal Server Mode), TCP	Rel-7	7.1				C164	E.1/89 AND E.1/132	
	Open Channel (related to Terminal Server Mode), UDP	Rel-7	7.2				C165	E.1/89 AND E.1/133	
32	**CLOSE CHANNEL 27.22.4.28**								
	Close Channel (related to GPRS)	Rel-4	N/A					E.1/89 AND E.1/90	
	Close Channel (support of Text Attribute)	Rel-5	N/A					E.1/89 AND E.1/90	
	Close Channel (related to UICC Server Mode)	Rel-7	3.1 to 3.2				C162	E.1/89 AND E.1/90 AND E.1/131	
	Close Channel (related to Terminal Server Mode)	Rel-7	4.1				C164	E.1/89 AND E.1/90 AND E.1/132	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
33	**RECEIVE DATA 27.22.4.29**	Rel-4	N/A					E.1/89 AND E.1/91	
34	**SEND DATA 27.22.4.30**	Rel-4	N/A					E.1/89 AND E.1/92	
35	**GET CHANNEL STATUS 27.22.4.31**								
	GET CHANNEL STATUS (related to GPRS)	Rel-4	N/A					E.1/93	
	GET CHANNEL STATUS (related to UICC Server Mode)	Rel-7	2.1 to 2.2				C162	E.1/89, E.1/93 AND E.1/131	
36	**Void**								
37	**Void**								
38	**Void**								
39	**CALL CONTROL BY NAA 27.22.6**	Rel-4	N/A					E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/64	
40	**EVENT DOWNLOAD 27.22.7**								
	27.22.7.1: MT call event	Rel-4	N/A					E.1/34 AND E.1/33	
	27.22.7.2.1: call connected event	Rel-4	N/A					E.1/35 AND E.1/33	
	27.22.7.2.2: Terminal supporting SET UP CALL	Rel-4	N/A					E.1/35 AND E.1/29 AND E.1/33	
	27.22.7.3: call disconnected event	Rel-4	N/A					E.1/36 AND E.1/33	
	27.22.7.4: location status event	Rel-4	N/A					E.1/37 AND E.1/33	
	27.22.7.5: user activity event	Rel-4	1.1	M	M	M	M	E.1/38 AND E.1/33	
	27.22.7.6: idle screen available event	Rel-4	1.1	M	M	M	M	E.1/39 AND E.1/33	
	27.22.7.7.1: Card reader status normal	Rel-4	1.1	C109	C109	C109	C109	E.1/40 AND E.1/33	
	27.22.7.7.2: Detachable card reader	Rel-4	2.1	C116	C116	C116	C116	E.1/40 AND E.1/33	
	27.22.7.8: language selection event	Rel-4	1.1	M	M	M	M	E.1/41 AND E.1/33	
	27.22.7.9: Browser termination event	Rel-4	N/A					E.1/42 AND E.1/33	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
	27.22.7.10: Data available event (related to GPRS)	Rel-4	N/A					E.1/43 AND E.1/89 AND E.1/33	
	27.22.7.10.2: Data available event (related to UICC server mode)	Rel-7	2.1				C162	E.1/43 AND E.1/89 AND E.1/33 AND E.1/131	
	27.22.7.11: Channel status event (related to GPRS)	Rel-4	N/A					E.1/44 AND E.1/89 AND E.1/33	
	27.22.7.11.2: Channel status event (related to UICC server mode)	Rel-7	2.1 to 2.2				C162	E.1/44 AND E.1/89 AND E.1/33 AND E.1/131	
	27.22.7.12: Access Technology change event	Rel-4	N/A					E.1/45 AND E.1/33	
	27.22.7.13: Display parameter changed event	Rel-4	N/A					E.1/46 AND E.1/33	
	27.22.7.14: Local connection event	Rel-4	N/A					E.1/47 AND E.1/33	
	27.22.7.15: Network search mode change event	Rel-6	N/A					E.1/48 AND E.1/33	
	27.22.7.16: Browsing status event	Rel-6	N/A					E.1/193 AND E.1/33	
	Frame Information changed event	Rel-6	TBD						
41	**Void**								
42	**SERVICE SEARCH**	Rel-4	N/A					E.1/94	
43	**GET SERVICE INFORMATION**	Rel-4	N/A					E.1/95	
44	**DECLARE SERVICE**	Rel-4	N/A					E.1/96	
45	**Void**								
46	**Void**								
47	**Void**								
48	**SET FRAMES**	Rel-6	TBD			C133	C133	E.1/177	
49	**GET FRAME STATUS**	Rel-6	TBD			C133	C133	E.1/178	
50	**Handling of command number**								
	DISPLAY TEXT normal priority	Rel-4	1.1	M	M	M	M	E.1/17	
51	**TERMINAL APPLICATIONS 27.22.10**								
	Terminal Applications (one application)	Rel-7	1.1 to 1.2				C166	E.1/235	
	Terminal Applications (several applications)	Rel-7	2.1				C166	E.1/235	

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
C101	Void								
C102	Void								
C103	Void								
C104	Void								
C105	IF A.1/3 AND A.1/41 THEN M ELSE N/A	-- O_Ucs2_Entry AND O_Ucs2_Entry_Cyrillic							
C106	Void								
C107	IF A.1/5 THEN M ELSE N/A	-- O_Help							
C108	IF A.1/6 THEN (O.1 OR O.2) ELSE N/A	-- O_Icons							
C109	IF A.1/7 THEN M ELSE N/A	-- O_Dual_Slot							
C110	IF (A.1/9 AND A.1/57) THEN M ELSE N/A	-- O_Run_At AND O_+CGMI							
C111	Void								
C112	IF A.1/11 THEN M ELSE N/A	-- O_Soft_key							
C113	Void								
C114	IF C110 AND C108 THEN M ELSE N/A	-- O_Run_At AND O_+CGMI AND O_Icons							
C115	Void								
C116	IF A1/07 AND A.1/8 THEN M ELSE N/A	-- O_Dual_Slot AND O_Detach_Rdr							
C117	Void								
C118	IF A.1/15 AND A.1/41 THEN M ELSE N/A	-- O_Ucs2_Disp AND O_Ucs2_Disp_Cyrillic							
C119	Void								
C120	IF A.1/20 THEN M ELSE N/A	-- O_D_NoResp							
C121	Void								
C122	Void								
C123	Void								
C124	Void								
C125	Void								
C126	IF A.1/24 THEN M ELSE N/A	-- O_Duration							
C127	Void								
C128	Void								
C129	Void								
C130	Void								
C131	Void								
C132	IF A.1/27 THEN M ELSE N/A	-- O_BIP_Local							
C133	IF A.1/37 THEN M ELSE N/A	-- O_Frames							
C134	Void								
C135	IF C110 ANC C133 THEN M ELSE N/A	-- O_Run-At AND O_+CGMI AND O_Frames							
C136	Void								
C137	Void								
C138	IF A.1/39 THEN M ELSE N/A	-- O_Tones							
C139	IF A.1/35 THEN M ELSE N/A	-- O_Batt							
C140	Void								
C141	Void								
C142	IF A.1/3 AND A.1/42 THEN M ELSE N/A	-- O_Ucs2_Entry AND O_UCS2_Chinese							
C143	IF A.1/15 AND A.1/42 THEN M ELSE N/A	-- O_Ucs2_Disp AND O_UCS2_Chinese							
C144	IF A.1/3 AND A.1/43 THEN M ELSE N/A	-- O_Ucs2_Entry AND O_UCS2_Katakana							
C145	IF A.1/15 AND A.1/43 THEN M ELSE N/A	-- O_Ucs2_Disp AND O_UCS2_Katakana							

Item	Description	Release	Test sequence(s)	Rel-4 Terminal	Rel-5 Terminal	Rel-6 Terminal	Rel-7 Terminal	Terminal Profile	Support
C146	IF A.1/44 THEN M ELSE N/A		-- O_TAT_AL						
C147	IF A.1/45 THEN M ELSE N/A		-- O_TAT_AC						
C148	IF A.1/46 THEN M ELSE N/A		-- O_TAT_AR						
C149	IF A.1/47 THEN M ELSE N/A		-- O_TAT_FSN						
C150	IF A.1/48 THEN M ELSE N/A		-- O_TAT_FSL						
C151	IF A.1/49 THEN M ELSE N/A		-- O_TAT_FSS						
C152	IF A.1/50 THEN M ELSE N/A		-- O_TAT_SN						
C153	IF A.1/51 THEN M ELSE N/A		-- O_TAT_SB						
C154	IF A.1/52 THEN M ELSE N/A		-- O_TAT_SI						
C155	IF A.1/53 THEN M ELSE N/A		-- O_TAT_SU						
C156	IF A.1/54 THEN M ELSE N/A		-- O_TAT_SS						
C157	IF A.1/55 THEN M ELSE N/A		-- O_TAT_STFC						
C158	IF A.1/56 THEN M ELSE N/A		-- O_TAT_STBC						
C159	IF C110 AND C118 THEN M ELSE N/A		-- O_Run_At AND O_+CGMI AND O_Ucs2_Disp AND				O_Ucs2_Disp_Cyrillic		
C160	IF C110 AND C143 THEN M ELSE N/A		-- O_Run_At AND O_+CGMI AND O_Ucs2_Disp AND				O_Ucs2_Disp_Chinese		
C161	IF C110 AND C145 THEN M ELSE N/A		-- O_Run_At AND O_+CGMI AND O_Ucs2_Disp AND				O_Ucs2_Disp_Katakana		
C162	IF A.1/58 THEN M ELSE N/A		-- O_TCP_UICC_ServerMode						
C163	IF A.1/58 AND A.1/60 THEN M ELSE N/A		-- O_TCP_UICC_ServerMode AND O_BUFFER_SIZE						
C164	IF A.1/61 THEN M ELSE N/A		-- O_TCP_Terminal_ServerMode						
C165	IF A.1/62 THEN M ELSE N/A		-- O_UDP_Terminal_ServerMode						
C166	IF A.1/63 THEN M ELSE N/A		-- O_Terminal_Applications						
O.1	IF (the Terminal supports icons as defined in record 1 of $EF_{(IMG)}$, tests x.1A M ELSE tests x.1B M (where x is the expected sequence number value).								
O.2	IF the Terminal supports icons as defined in record 2 of $EF_{(IMG)}$, tests x.2A M ELSE x.2B M (where x is the expected sequence number value).								
O.3	Void.								

3.5 Conventions for mathematical notations

The conventions for mathematical notations specified below shall apply.

3.5.1 Mathematical signs

The "plus or minus" sign is expressed by "±".

The sign "multiplied by" is expressed by "*".

The sign "divided by" is expressed by "/", or the common division bar.

The sign "greater than or equal to" is expressed by "≥".

The sign "less than or equal to" is expressed by "≤".

4 Test equipment

The test equipment depends on the NAA of the test environment.

5 Testing methodology in general

5.1 Testing of optional functions and procedures

Any function or procedure which is optional, as indicated in the present document, may be subject to a conformance test if it is implemented in the Terminal.

5.2 Test interfaces and facilities

The UICC interface provides the main test interfaces for the purpose of performing conformance tests.

The tests which require a network simulator shall not be carried out in this present document as the tests are intended to be independent of the NAA.

5.3 Information to be provided by the apparatus supplier

The information to be provided by the apparatus supplier specified in this present document shall apply.

In addition, the apparatus supplier shall provide the information with respect to the Supported Option table A.1 and to Terminal's default configuration table A.2.

Table A.2: Terminal's default configuration

Item	Description	Value	Status
1	DISPLAY TEXT No Response from user timeout interval		C
2	GET INKEY No Response from user timeout interval		C
3	GET INPUT No Response from user timeout interval		C
4	SELECT ITEM No Response from user timeout interval		C
5	DISPLAY TEXT Text Attribute Alignment (Left or Center or Right)		C
6	GET INKEY Text Attribute Alignment (Left or Center or Right)		C
7	GET INPUT Text Attribute Alignment (Left or Center or Right)		C
8	PLAY TONE Text Attribute Alignment (Left or Center or Right)		C
9	SET UP MENU Text Attribute Alignment (Left or Center or Right)		C
10	SELECT ITEM Text Attribute Alignment (Left or Center or Right)		C
11	SEND SHORT MESSAGE Text Attribute Alignment (Left or Center or Right)		C
12	Void		
13	Void		
14	SET UP CALL Text Attribute Alignment (Left or Center or Right)		C
15	SET UP IDLE MODE TEXT Text Attribute Alignment (Left or Center or Right)		C
16	RUN AT COMMAND Text Attribute Alignment (Left or Center or Right)		C
17	SEND DTMF Text Attribute Alignment (Left or Center or Right)		C
18	LAUNCH BROWSER Text Attribute Alignment (Left or Center or Right)		C
19	OPEN CHANNEL Text Attribute Alignment (Left or Center or Right)		C
20	CLOSE CHANNEL Text Attribute Alignment (Left or Center or Right)		C
21	RECEIVE DATA Text Attribute Alignment (Left or Center or Right)		C
22	SEND DATA Text Attribute Alignment (Left or Center or Right)		C
23	IMEI		C
24	IMEISV		C
25	ESN		C
26	Additional Card Reader ID		C
27	Channel ID		C
28	Manufacturer identification as implemented according to TS 127 007 [6], clause 5.1		C
29	Preferred buffer size supported by the terminal for Open Channel command		C

NOTE: Conditional values shall be provided if the corresponding option is supported in the table A.1.

6 Void

7 Measurement uncertainty

The measured value relating to the corresponding limit shall be used to determine whether or not a terminal equipment meets the requirement (ETR 028 [10], annex B).

This process is often referred to as "shared risk".

8 Format of tests

In general the following basic format for tests is used:

27.22.X.X. Tested command

27.22.X.X.1 Command tested in «environment #1" (NORMAL, ICONS, UCS2 …)

27.22.X.X.1.1 Definition and applicability

This clause refers back to clause 3.2.2.

27.22.X.X.1.2 Conformance requirement

Only if required, this clause details the necessary core specification references.

27.22.X.X.1.3 Test purpose

This clause details the purpose of the test.

27.22.X.X.1.4 Method of test

27.22.X.X.1.4.1 Initial conditions

If present this clause defines the initial conditions to be established before running each test sequence.

27.22.X.X.1.4.2 Procedure

This clause details the test procedure. Each test sequence shall be carried out independently unless otherwise stated.

- Sequence 1.1 (further initial conditions, added here)

Command 1.1.1
TERMINAL RESPONSE1.1.1A or 1.1.1B
Command 1.1.2
TERMINAL RESPONSE1.1.2

PROACTIVE COMMAND 1.1.1

TERMINAL RESPONSE 1.1.1A

TERMINAL RESPONSE 1.1.1B

PROACTIVE COMMAND 1.1.2

TERMINAL RESPONSE 1.1.2

- Sequence 1.2

Command 1.2.1
TERMINAL RESPONSE 1.2.1
Command 1.2.2
TERMINAL RESPONSE1.2.2 (same as TERMINAL RESPONSE 1.2.1)
Command 1.2.3
TERMINAL RESPONSE 1.2.3

PROACTIVE COMMAND 1.2.1

PROACTIVE COMMAND 1.2.2

PROACTIVE COMMAND 1.2.3

TERMINAL RESPONSE 1.2.1

TERMINAL RESPONSE 1.2.2

TERMINAL RESPONSE 1.2.3

- Sequence 1.3

Command 1.3.1
TERMINAL RESPONSE1.3.1

PROACTIVE COMMAND 1.3.1

TERMINAL RESPONSE 1.3.1

27.22.X.X.1.5 Test requirement

This clause details the conditions to be met for successful completion of the test.

27.22.X.X.2 Command tested in "environment #2" (NORMAL, ICONS, UCS2 …)

27.22.X.X. 2.1 Definition and applicability

27.22.X.X. 2.2 Conformance requirement

27.22.X.X. 2.3 Test purpose

27.22.X.X. 2.4 Method of test

27.22.X.X. 2.4.1.1 Initial conditions

27.22.X.X. 2.4.1.2 Procedure

- Sequence 2.1

Command 2.1.1
TERMINAL RESPONSE2.1.1A or 2.1.1B
Command 2.1.2
TERMINAL RESPONSE2.1.2

PROACTIVE COMMAND 2.1.1

TERMINAL RESPONSE 2.1.1A

TERMINAL RESPONSE 2.1.1B

PROACTIVE COMMAND 2.1.2

TERMINAL RESPONSE 2.1.2

- Sequence 2.2

Command 2.2.1
TERMINAL RESPONSE 2.2.1
Command 2.2.2
TERMINAL RESPONSE 2.2.2 (same as TERMINAL RESPONSE 2.2.1)
Command 2.2.3
TERMINAL RESPONSE 2.2.3

PROACTIVE COMMAND 2.2.1

PROACTIVE COMMAND 2.2.2

PROACTIVE COMMAND 2.2.3

Coding TERMINAL RESPONSE 2.2.1

Coding TERMINAL RESPONSE 2.2.2

Coding TERMINAL RESPONSE 2.2.3

27.22.X.X.2.5 Test requirement

9 Generic call set up procedures

The generic call set up procedure is not specified in this present document as this procedure is NAA dependent.

10 to 26 Void

27 Testing of the UICC/Terminal interface

This clause is to confirm the correct interpretation of the Card Application Toolkit commands and the correct operation of the Toolkit facilities.

The definitions, declarations and default values specified in this present document shall apply.

A UICC Simulator with the appropriate Card Application Toolkit functionality will be required. The UICC data defined below shall be used for all test cases unless otherwise specified within the test case.

The comprehension required flags in SIMPLE-TLV objects that are included in a TERMINAL RESPONSE or an ENVELOPE shall be set as described in TS 102 223 [1]. This means that in cases where it is up to the Terminal to decide if this flag is used or not, the corresponding Tag coding in the TERMINAL RESPONSEs and ENVELOPEs in the present document represents only one of the two valid possibilities.

27.1 to 27.21 Void

27.22 Card Application Toolkit

27.22.1a General Test purpose

Testing of functional conformance to Card Application Toolkit commands includes proactive UICC commands.

All facilities independent from a specific NAA given by the TERMINAL PROFILE as supported, for which tests exist in the present document, shall be tested.

Many of the proactive UICC commands include an alpha identifier data object. This is intended to be a short one or two word identifier for the Terminal to optionally display on the screen along with any other indications, at the same time as the Terminal performs the UICC command.

NOTE: The sequence of Card Application Toolkit commands are specific to the Toolkit Application being executed within the UICC, hence sequential testing of commands is not possible. The testing will therefore have to be performed on a command by command basis.

27.22.1b Definition of default values for Card Application Toolkit testing

A UICC containing the following default values is used for all tests of this clause unless otherwise stated.

For each item, the logical default values and the coding within the Elementary Files (EF) of the UICC as follows:

NOTE 1: Bx represents byte x of the coding.

NOTE 2: Unless otherwise defined, the coding values in binary.

EF_{ICCID} (ICCID, 2FE2)

Logically:

Identification number: 8949000202140000045

Coding:

Coding:	98	94	00	20	20	41	00	00	40	F5

For the display of icon:

- Under the DF Telecom: creation of DF Graphics (5F50);
- Under the DF 5F50: creation of EF_{Img} (4F20, linear fixed file) and $EF_{Instance}$ (4FXX, transparent file).

EF_{Img} (Image, 4F20)

Record 1:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	08
Image Instance Height:	08
Image Coding Scheme:	11 (basic image)
Image Instance File Identifier:	4F 04 ($EF_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 0A

Coding:

Coding:	01	08	08	11	4F	04	00	00	00	0A	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 2:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	08
Image Instance Height:	08
Image Coding Scheme:	21 (colour image)
Image Instance File Identifier:	4F 02($EF_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 16

Coding:

Coding:	01	08	08	21	4F	02	00	00	00	16	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 3:

Logically:

Number of Actual Images Instances:	01
Image Instance Width:	18
Image Instance Height:	10
Image Coding Scheme:	11 (basic image)
Image Instance File Identifier:	4F 03 ($EF_{Instance}$)
Offset into Image Instance File:	00 00
Length of Image Instance Data:	00 32

Coding:

Coding:	01	18	10	11	4F	03	00	00	00	32	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 4:

Logically:

Number of Actual Images Instances: 01
Image Instance Width: 2E
Image Instance Height: 28
Image Coding Scheme: 11 (basic image)
Image Instance File Identifier: 4F 01 ($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 E8

Coding:

Coding:	01	2E	28	11	4F	01	00	00	00	E8	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 5:

Logically:

Number of Actual Images Instances: 01
Image Instance Width: 05
Image Instance Height: 05
Image Coding Scheme: 11 (basic image)
Image Instance File Identifier: 4F 05 ($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 08

Coding:

Coding:	01	05	05	11	4F	05	00	00	00	08	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

$EF_{Instance}$ (4F01)

Logically:

Image Instance Data: see below

Coding:

Coding:	2E	28	00	00	00	00	00	00	00	01	FF	80
	00	00	00	0F	FF	00	00	00	00	77	FE	00
	00	00	01	BF	F8	00	00	00	06	FF	E0	00
	00	00	1A	03	80	00	00	00	6B	F6	BC	00
	00	01	AF	D8	38	00	00	06	BF	60	20	00
	00	1A	FD	80	40	00	00	6B	F6	00	80	00
	01	A0	1F	02	00	00	06	FF	E4	04	00	00
	1B	FF	90	10	00	00	6D	EE	40	40	00	01
	BF	F9	01	00	00	6F	FF	E4	04	00	00	1B
	FF	90	10	00	00	6F	FE	40	40	00	01	BF
	F9	01	00	00	06	FF	E6	04	00	00	1B	FF
	88	10	00	00	6F	FE	20	40	00	01	BF	F8
	66	00	00	06	FF	E0	F0	00	00	1B	FF	80
	80	00	00	7F	FE	00	00	00	03	00	0C	00
	00	00	1F	FF	F8	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00	00	00	00
	1C	21	08	44	EE	00	48	C4	31	92	20	01
	25	11	45	50	80	07	14	45	15	43	80	12
	71	1C	4D	08	00	4A	24	89	32	20	01	C8
	9E	24	4E	E0								

$EF_{Instance}$ (4F02)

Logically:

Image Instance Data:
Image width: 08
Image length: 08
Bits per raster image point: 02
Number of CLUT entries: 03
Location of CLUT: 00 16
Image body: see below

Coding:

Coding:	08	08	02	03	00	16	AA	AA	80	02	85	42
	81	42	81	42	81	52	80	02	AA	AA	FF	00
	00	00	FF	00	00	00	FF					

$EF_{Instance}$ (4F03)

Logically:

Image Instance Data: see below

Coding:

Coding:	18	10	FF	FF	FF	80	00	01	80	00	01	80
	00	01	8F	3C	F1	89	20	81	89	20	81	89
	20	F1	89	20	11	89	20	11	89	20	11	8F
	3C	F1	80	00	01	80	00	01	80	00	01	FF
	FF	FF										

$EF_{Instance}$ (4F04)

Logically:

Image Instance Data: see below

Coding:

Coding:	08	08	FF	03	A5	99	99	A5	C3	FF

$EF_{Instance}$ (4F05)

Logically:

Image Instance Data: see below

Coding:

Coding:	05	05	FE	EB	BF	FF	FF	FF

27.22.1 Initialization of Card Application Toolkit Enabled UICC by Card Application Toolkit Enabled Terminal (Profile Download)

27.22.1.1 Definition and applicability

See clause 3.2.2.

27.22.1.2 Conformance requirement

The Terminal shall support the PROFILE DOWNLOAD command as defined in:

- TS 102 223 [1], clause 5.2.

27.22.1.3 Test purpose

To verify that the Terminal sends a TERMINAL PROFILE command in accordance with the above requirements.

27.22.1.4 Method of test

27.22.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. All elementary files are coded as the default Toolkit personalization.

27.22.1.4.2 Procedure

Expected Sequence 1 (PROFILE DOWNLOAD)

Step	Direction	Message / Action	Comments
1	USER → Terminal	Power on Terminal	UICC Activation.
2	Terminal → UICC	Select EF PL	
3	UICC → Terminal	Read EF PL	
4	Terminal → UICC	TERMINAL PROFILE 1.1	PROFILE DOWNLOAD.
5	UICC → Terminal	NORMAL ENDING OF COMMAND 1.1	
6	Terminal → UICC	Select NAA Application	

TERMINAL PROFILE: 1.1

Logically:

Coding:

APDU:	CLA=80	INS=10	P1=00	P2=00	P3=XX

DATA IN:	YY	ZZ	…

With XX representing the length of the following DATA IN depending on the Card Toolkit commands supported by the Terminal, and with YY, ZZ, … representing here the bytes of the TERMINAL PROFILE data, as specified in TS 102 223 [1], clause 5.2.

NORMAL ENDING OF COMMAND: 1.1

Logically:

Coding:

SW1=90	SW2=00

27.22.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.

27.22.2 Contents of the TERMINAL PROFILE command

27.22.2.1 Definition and applicability

See table E.1 in annex B.

27.22.2.2 Conformance requirement

The Terminal shall support the PROFILE DOWNLOAD command as defined in:

- TS 102 223 [1], clause 5.2.

27.22.2.3 Test purpose

1) Verify that the TERMINAL PROFILE indicates that Profile Download facility is supported.

2) Record which Card Application Toolkit facilities are supported by the Terminal, to determine which subsequent tests are required.

27.22.2.4 Method of test

27.22.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. All elementary files are coded as the default Card Application Toolkit personalization.

27.22.2.4.2 Procedure

a) The Terminal is powered on.

b) After the Terminal sends the TERMINAL PROFILE command to the UICC Simulator, the UICC Simulator shall record the content of the TERMINAL PROFILE.

c) The UICC Simulator shall return SW1 / SW2 of '90 00'.

d) The contents of the TERMINAL PROFILE is recorded and compared to the corresponding table E.1 "status" column.

The test is terminated upon the Terminal sending the TERMINAL PROFILE command to the UICC Simulator.

27.22.2.5 Test requirement

1) After step a) the Terminal shall send the TERMINAL PROFILE command to the UICC Simulator with bit 1 of the first byte set to 1 (facility supported by Terminal).

2) In table E.1 for the corresponding Terminal Card Toolkit Release and Options, The TERMINAL PROFILE information "support" recorded must be in accordance with the "Status" column. Support of features defined only in releases later than present release shall be ignored.

27.22.3 Servicing of proactive UICC commands

27.22.3.1 Definition and applicability

See clause 3.2.2.

27.22.3.2 Conformance requirement

On detection of a pending Card Application Toolkit command from the UICC the Terminal shall perform the FETCH command to retrieve the proactive UICC command. The result of the executed command shall be transmitted from the Terminal to the UICC within a TERMINAL RESPONSE command.

The MORE TIME proactive command is used in this test. The Terminal shall have knowledge of this command, but may not support this Card Application Toolkit facility.

- TS 102 223 [1], clause 6.3.

27.22.3.3 Test purpose

To verify that the Terminal uses the FETCH command to obtain the proactive UICC command, after detection of a pending proactive UICC command. The pending proactive UICC command is indicated by the response parameters '91 xx' from the UICC.

To verify that the Terminal transmits the result of execution of the proactive UICC command to the UICC in the TERMINAL RESPONSE command.

27.22.3.4 Method of test

27.22.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as the Card Application Toolkit default.

The UICC Simulator is configured to indicate that a proactive UICC command is pending.

The UICC Simulator is configured to monitor the UICC - Terminal interface.

27.22.3.4.2 Procedure

a) The Terminal is powered on.

b) After the Terminal has performed the PROFILE DOWNLOAD procedure, the UICC Simulator indicates that a Proactive UICC Command is pending with SW1 / SW2 of '91 0B'.

c) After the Terminal sends the FETCH command to the UICC Simulator, the UICC Simulator returns Proactive UICC Command 2.1: MORE TIME.

27.22.3.5 Test requirement

1) After step b) the Terminal shall send the FETCH command to the UICC.

2) After step c) the Terminal shall send the TERMINAL REPONSE command with command number "01", type of command "02" and command qualifier "00".

27.22.4 Proactive UICC commands

27.22.4.1 DISPLAY TEXT

27.22.4.1.1 DISPLAY TEXT (Normal)

27.22.4.1.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.1.2 Conformance requirements

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

27.22.4.1.1.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.1.4 Method of test

27.22.4.1.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.1.4.2 Procedure

Expected Sequence 1.1 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.1.1	Normal priority, wait for user to clear message, unpacked, 8 bit data.
4	Terminal → USER	Display "Toolkit Test 1"	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 1"

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 1.2 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, screen busy)

Step	Direction	MESSAGE / Action	Comments
1	USER → Terminal	Set the Terminal screen to a display mode other than the normal stand-by display	The Terminal will be set to a mode so that normal priority text commands shall be rejected.
2	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.2.1	
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.2.1	Normal priority.
5	Terminal → USER	No change of the currently being used display.	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.2.1	Terminal currently unable to process command - screen busy.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.2.1: same as 1.1.1

TERMINAL RESPONSE: DISPLAY TEXT 1.2.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Terminal currently unable to process command
Additional information: Screen is busy

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	02	20
	01											

Expected Sequence 1.3 (DISPLAY TEXT, high priority, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.3.1	The Terminal screen is in a mode other than the normal stand by display.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.3.1	High priority.
4	Terminal → USER	Display "Toolkit Test 2"	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.3.1	
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
8	USER → Terminal	Set the Terminal screen back to normal stand-by display	

PROACTIVE COMMAND: DISPLAY TEXT 1.3.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: high priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 2"

Coding:

BER-TLV:	D0	1A	81	03	01	21	81	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	32								

TERMINAL RESPONSE: DISPLAY TEXT 1.3.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: high priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	81	82	02	82	81	83	01	00

Expected Sequence 1.4 (DISPLAY TEXT, Packed, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.4.1	Packed, SMS default alphabet.
4	Terminal → USER	Display "Toolkit Test 3"	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	Command performed successfully.

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text string
- Data coding scheme: packed, SMS default alphabet
- Text: "Toolkit Test 3"

Coding:

BER-TLV:	D0	19	81	03	01	21	80	82	02	81	02	8D
	0E	00	D4	F7	9B	BD	4E	D3	41	D4	F2	9C
	0E	9A	01									

TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 1.5 (DISPLAY TEXT, Clear message after delay, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.5.1	Clear message after a delay.
4	Terminal → USER	Display "Toolkit Test 4" and clear this message after a short delay	
5	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.5.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.5.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, clear message after a delay

Device identities
- Source device: UICC
- Destination device: Display

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 4"

Coding:

BER-TLV:	D0	1A	81	03	01	21	00	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	34								

TERMINAL RESPONSE: DISPLAY TEXT 1.5.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, clear message after a delay

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	00	82	02	82	81	83	01	00

Expected Sequence 1.6 (DISPLAY TEXT, Text string with 160 bytes, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.6.1	Text string with 160 bytes - maximum for non extension text.
4	Terminal → USER	Display "This command instructs the ME to display a text message. It allows the SIM to define the priority of that message, and the text string format. Two types of prio"	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.6.1	Command performed successfully.

PROACTIVE COMMAND: DISPLAY TEXT 1.6.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "This command instructs the ME to display a text message. It allows the SIM to define the priority of that message, and the text string format. Two types of prio"

Coding:

BER-TLV:	D0	81	AD	81	03	01	21	80	82	02	81	02
	8D	81	A1	04	54	68	69	73	20	63	6F	6D
	6D	61	6E	64	20	69	6E	73	74	72	75	63
	74	73	20	74	68	65	20	4D	45	20	74	6F
	20	64	69	73	70	6C	61	79	20	61	20	74
	65	78	74	20	6D	65	73	73	61	67	65	2E
	20	49	74	20	61	6C	6C	6F	77	73	20	74
	68	65	20	53	49	4D	20	74	6F	20	64	65
	66	69	6E	65	20	74	68	65	20	70	72	69
	6F	72	69	74	79	20	6F	66	20	74	68	61
	74	20	6D	65	73	73	61	67	65	2C	20	61
	6E	64	20	74	68	65	20	74	65	78	74	20
	73	74	72	69	6E	67	20	66	6F	72	6D	61
	74	2E	20	54	77	6F	20	74	79	70	65	73
	20	6F	66	20	70	72	69	6F				

TERMINAL RESPONSE: DISPLAY TEXT 1.6.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 1.7 (DISPLAY TEXT, Backward move in Proactive UICC session, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.7.1	
4	Terminal → USER	Display "<GO-BACKWARDS>"	
5	USER → Terminal	Indicate the need to go backwards in the proactive UICC application session	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.7.1	Backward move in the proactive UICC session requested by the user.

PROACTIVE COMMAND: DISPLAY TEXT 1.7.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text string
Data coding scheme: unpacked, 8 bit data
Text: "<GO-BACKWARDS>"

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E								

TERMINAL RESPONSE: DISPLAY TEXT 1.7.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Backward move in the proactive UICC session requested by the user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	11

Expected Sequence 1.8 (DISPLAY TEXT, session terminated by user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.8.1	
4	Terminal → USER	Display "<ABORT>"	
5	USER → Terminal	Indicate the need to end the proactive UICC application session	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.8.1	Proactive UICC session terminated by the user.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.8.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text string
Data coding scheme: unpacked, 8 bit data
Text: "<ABORT>"

Coding:

BER-TLV:	D0	13	81	03	01	21	80	82	02	81	02	8D
	08	04	3C	41	42	4F	52	54	3E			

TERMINAL RESPONSE: DISPLAY TEXT 1.8.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	10

Expected Sequence 1.9 (DISPLAY TEXT, icon and text to be displayed, no text string given, not understood by Terminal)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.9.1	Including icon identifier, icon shall be displayed together with the alpha text string, but no text string given.
4	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.9.1	Command data not understood by Terminal (clause 6.5.4).
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.9.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text string
- Contents: null data object

Icon Identifier:
- Icon qualifier: icon is self-explanatory
- Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	0F	81	03	01	21	80	82	02	81	02	8D
	00	9E	02	00	01							

TERMINAL RESPONSE: DISPLAY TEXT 1.9.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command data not understood by Terminal

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	32

27.22.4.1.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.9.

27.22.4.1.2 DISPLAY TEXT (Support of "No response from user")

27.22.4.1.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.2.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.1.2.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.2.4 Method of test

27.22.4.1.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

Terminal Manufacturers shall set the "no response from user" period of time as declared in table A.2/1.

The UICC Simulator shall be set to that period of time.

27.22.4.1.2.4.2 Procedure

Expected Sequence 2.1 (DISPLAY TEXT, no response from user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 2.1.1	Normal priority, wait for user to clear message, unpacked, 8 bit data.
4	Terminal → USER	Display "<TIME-OUT>"	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 2.1.1	No response from user within 5 s after the end of that defined period of time.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "<TIME-OUT>"

Coding:

BER-TLV:	D0	16	81	03	01	21	80	82	02	81	02	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E

TERMINAL RESPONSE: DISPLAY TEXT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: No response from user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	12

27.22.4.1.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.1.3 DISPLAY TEXT (Display of extension text)

27.22.4.1.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.3.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.6.1, 6.8, 6.11, 8.6 and 8.15.

27.22.4.1.3.3 Test purpose

To verify that the Terminal displays the extension text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.3.4 Method of test

27.22.4.1.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.3.4.2 Procedure

Expected Sequence 3.1 (DISPLAY TEXT, display of the extension text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 3.1.1	Text string with the maximum of 240 bytes.
4	Terminal → USER	Display "This command instructs the ME to display a text message, and/or an icon (see clause 6.5.4). It allows the SIM to define the priority of that message, and the text string format. Two types of priority are defined:- display normal priority text and/"	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 3.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 3.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "This command instructs the ME to display a text message and/or an icon (see clause 6.5.4). It allows the SIM to define the priority of that message, and the text string format. Two types of priority are defined:- display normal priority text and/"

Coding:

BER-TLV:	D0	81	FD	81	03	01	21	80	82	02	81	02
	8D	81	F1	04	54	68	69	73	20	63	6F	6D
	6D	61	6E	64	20	69	6E	73	74	72	75	63
	74	73	20	74	68	65	20	4D	45	20	74	6F
	20	64	69	73	70	6C	61	79	20	61	20	74
	65	78	74	20	6D	65	73	73	61	67	65	2C
	20	61	6E	64	2F	6F	72	20	61	6E	20	69
	63	6F	6E	20	28	73	65	65	20	36	2E	35
	2E	34	29	2E	20	49	74	20	61	6C	6C	6F
	77	73	20	74	68	65	20	53	49	4D	20	74
	6F	20	64	65	66	69	6E	65	20	74	68	65
	20	70	72	69	6f	72	69	74	79	20	6F	66
	20	74	68	61	74	20	6D	65	73	73	61	67
	65	2C	20	61	6E	64	20	74	68	65	20	74
	65	78	74	20	73	74	72	69	6E	67	20	66
	6F	72	6D	61	74	2E	2°	54	77	6F	20	74
	79	70	65	73	20	6F	66	20	70	72	69	6F
	72	69	74	79	20	61	72	65	20	64	65	66
	69	6E	65	64	3A	2D	20	64	69	73	70	6C
	61	79	20	6E	6F	72	6D	61	6C	20	70	72
	69	6F	72	69	74	79	20	74	65	78	74	20
	61	6E	64	2F								

TERMINAL RESPONSE: DISPLAY TEXT 3.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.1.

27.22.4.1.4 DISPLAY TEXT (Sustained text)

27.22.4.1.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.4.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.6.1, 6.8, 6.11, 8.6, 8.15 and 8.15.

27.22.4.1.4.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, returns a successful result in the TERMINAL RESPONSE command send to the UICC and sustain the display beyond sending the TERMINAL response.

27.22.4.1.4.4 Method of test

27.22.4.1.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.4.4.2 Procedure

Expected Sequence 4.1 (DISPLAY TEXT, sustained text, unpacked data 8 bits, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 4.1.1	Normal priority, wait for user to clear message, unpacked, 8 bit data.
4	Terminal → USER	Display "Toolkit Test 1"	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
8	Terminal → USER	Display of "Toolkit Test 1" shall sustain	Text shall sustain until - a subsequent proactive command is received containing display data.

PROACTIVE COMMAND: DISPLAY TEXT 4.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 1"

Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 4.2 (DISPLAY TEXT, sustained text, clear message after delay, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 4.2.1	Clear message after a delay.
4	Terminal → USER	Display "Toolkit Test 2"	
5	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.2.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	Terminal → USER	Display "Toolkit Test 2"	Text shall sustain until - the expiration of a short delay.

PROACTIVE COMMAND: DISPLAY TEXT 4.2.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, clear message after a delay

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 2"

Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	00	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	32	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.2.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, clear message after a delay

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	00	82	02	82	81	83	01	00

Expected Sequence 4.3 (DISPLAY TEXT, sustained text, wait for user MMI to clear, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 4.3.1	Wait for user to clear message.
4	Terminal → USER	Display "Toolkit Test 3"	
5	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.3.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	Terminal → USER	Display of "Toolkit Test 3"	Text shall sustain until - a user MMI action.
8	USER → Terminal	Clear message	

PROACTIVE COMMAND: DISPLAY TEXT 4.3.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Toolkit Test 3"

Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	33	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.3.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 4.1 to 4.3.

27.22.4.1.5 DISPLAY TEXT (Display of icons)

27.22.4.1.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.5.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

27.22.4.1.5.3 Test purpose

To verify that the Terminal displays the icons which are referred to in the contents of the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.5.4 Method of test

27.22.4.1.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.5.4.2 Procedure

Expected Sequence 5.1A (DISPLAY TEXT, display of basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 5.1.1	BASIC-ICON, self-explanatory
4	Terminal → USER	Display the BASIC-ICON	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.1.1A	Command performed successfully

PROACTIVE COMMAND: DISPLAY TEXT 5.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Basic Icon"

Icon Identifier:
- Icon qualifier: icon is self-explanatory
- Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0B	04	42	61	73	69	63	20	49	63	6F	6E
	9E	02	00	01								

TERMINAL RESPONSE: DISPLAY TEXT 5.1.1A

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 5.1B (DISPLAY TEXT, display of basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 5.1.1	BASIC-ICON, self-explanatory.
4	Terminal → USER	Display "Basic Icon" without icon	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.1.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: DISPLAY TEXT 5.1.1B

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	04

Expected Sequence 5.2A (DISPLAY TEXT, display of colour icon, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 5.2.1	COLOUR-ICON.
4	Terminal → USER	Display the COLOUR-ICON	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.2.1A	Command performed successfully.

PROACTIVE COMMAND: DISPLAY TEXT 5.2.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Colour Icon"

Icon Identifier:
Icon qualifier: icon is self-explanatory
Icon Identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1B	81	03	01	21	80	82	02	81	02	8D
	0C	04	43	6F	6C	6F	75	72	20	49	63	6F
	6E	9E	02	00	02							

TERMINAL RESPONSE: DISPLAY TEXT 5.2.1A

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 5.2B (DISPLAY TEXT, display of colour icon, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 5.2.1	COLOUR-ICON.
4	Terminal → USER	Display "Colour Icon" without the icon	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.2.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: DISPLAY TEXT 5.2.1B

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	04

Expected Sequence 5.3A (DISPLAY TEXT, display of basic icon, not self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 5.3.1	BASIC-ICON, not self-explanatory.
4	Terminal → USER	Display the BASIC-ICON And Display "Basic Icon"	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.3.1A	Command performed successfully.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 5.3.1

Logically:

Command details

Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities

Source device: UICC
Destination device: Display

Text String

Data coding scheme: unpacked, 8 bit data
Text: "Basic Icon"

Icon Identifier:

Icon qualifier: icon is not self-explanatory
Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0B	04	42	61	73	69	63	20	49	63	6F	6E
	9E	02	01	01								

TERMINAL RESPONSE: DISPLAY TEXT 5.3.1A

Logically:

Command details

Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

Expected Sequence 5.3B (DISPLAY TEXT, display of basic icon, not self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 5.3.1	BASIC-ICON, not self-explanatory.
4	Terminal → USER	Display "Basic Icon" without the icon	
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 5.3.1B	Command performed successfully, but requested icon could not be displayed.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: DISPLAY TEXT 5.3.1B

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	04

27.22.4.1.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 5.1A to 5.3B.

27.22.4.1.6 DISPLAY TEXT (UCS2 display supported in Cyrillic)

27.22.4.1.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.6.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

The Terminal shall support the UCS2 alphabet for the coding of the Cyrillic alphabet, as defined in the following technical specification: ISO/IEC 10646 [2].

27.22.4.1.6.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.6.4 Method of test

27.22.4.1.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.6.4.2 Procedure

Expected Sequence 6.1 (DISPLAY TEXT, UCS2 coded in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 6.1.1	Normal priority, wait for user to clear message, UCS2 coded.
4	Terminal → USER	Display " ЗДРАВСТВУЙТЕ "	"Hello" in Russian.
5	USER → Terminal	Clear message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 6.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 6.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: UCS2 (16bit)
- Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	24	81	03	01	21	80	82	02	81	02	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: DISPLAY TEXT 6.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.1.

27.22.4.1.7 DISPLAY TEXT (Variable Time out)

27.22.4.1.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.7.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31 and 8.43.

The Terminal shall support the variable time out for the display text.

27.22.4.1.7.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.7.4 Method of test

27.22.4.1.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.7.4.2 Procedure

Expected Sequence 7.1 (DISPLAY TEXT, variable timeout of 10 seconds)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 7.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 7.1.1	Normal priority, wait for user to clear message, clear message after delay of 10 seconds.
4	Terminal → USER	Display "10 Second" for 10 seconds	
5	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 7.1.1	No response from user.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 7.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "10 Second"

Duration
- Time unit: seconds
- Time interval: 10 units

Coding:

BER-TLV:	D0	19	81	03	01	21	80	82	02	81	02	8D
	0A	04	31	30	20	53	65	63	6F	6E	64	84
	02	01	0A									

TERMINAL RESPONSE: DISPLAY TEXT 7.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: No response from user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	12

27.22.4.1.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 7.1.

27.22.4.1.8 DISPLAY TEXT (Support of Text Attribute)

27.22.4.1.8.1 DISPLAY TEXT (Support of Text Attribute - Left Alignment)

27.22.4.1.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.1.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with Left Alignment for the display text.

27.22.4.1.8.1.3 Test purpose

To verify that the Terminal displays the text formatted according to the left alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.1.4 Method of test

27.22.4.1.8.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.1.4.2 Procedure

Expected Sequence 8.1 (DISPLAY TEXT, Text Attribute with Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.1.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with left alignment.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.1.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.1.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/5, no alignment change will take place.

Step	Direction	MESSAGE / Action	Comments
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.1.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

TERMINAL RESPONSE: DISPLAY TEXT 8.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.8.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.1.

27.22.4.1.8.2 DISPLAY TEXT (Support of Text Attribute - Center Alignment)

27.22.4.1.8.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.2.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with Centre Alignment for the display text.

27.22.4.1.8.2.3 Test purpose

To verify that the Terminal displays the text formatted according to the center alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.2.4 Method of test

27.22.4.1.8.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.2.4.2 Procedure

Expected Sequence 8.2 (DISPLAY TEXT, Text Attribute with Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.2.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with center alignment.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.2.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.2.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.2.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/5, no alignment change will take place.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.2.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.2.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	01	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.2.2

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

TERMINAL RESPONSE: DISPLAY TEXT 8.2.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.8.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.2.

27.22.4.1.8.3 DISPLAY TEXT (Support of Text Attribute - Right Alignment)

27.22.4.1.8.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.3.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with Right Alignment for the display text.

27.22.4.1.8.3.3 Test purpose

To verify that the Terminal displays the text formatted according to the right alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.3.4 Method of test

27.22.4.1.8.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.3.4.2 Procedure

Expected Sequence 8.3 (DISPLAY TEXT, Text Attribute with Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.3.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with right alignment.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.3.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.3.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.3.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/5, no alignment change will take place.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.3.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.3.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	02	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.3.2

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

TERMINAL RESPONSE: DISPLAY TEXT 8.3.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.8.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.3.

27.22.4.1.8.4 DISPLAY TEXT (Support of Text Attribute - Large Font Size)

27.22.4.1.8.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.4.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with large font size for the display text.

27.22.4.1.8.4.3 Test purpose

To verify that the Terminal displays the text formatted according to the large size font text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.4.4 Method of test

27.22.4.1.8.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.4.4.2 Procedure

Expected Sequence 8.4 (DISPLAY TEXT, Text Attribute with Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.4.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with large font size.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.4.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted with normal font size.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.4.1	Normal priority, wait for user to clear message.

Step	Direction	MESSAGE / Action	Comments
16	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with large font size.
17	USER → Terminal	Clear Message	
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.4.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.4.3	Normal priority, wait for user to clear message.
22	Terminal → USER	Display "Text Attribute 3"	Message shall be formatted with normal font size.
23	USER → Terminal	Clear Message	
24	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.4.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.4.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	04	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.4.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.4.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font , Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.4.3

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.4.

27.22.4.1.8.5 DISPLAY TEXT (Support of Text Attribute - Small Font Size)

27.22.4.1.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.5.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with small font size for the display text.

27.22.4.1.8.5.3 Test purpose

To verify that the Terminal displays the text formatted according to the small size font text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.5.4 Method of test

27.22.4.1.8.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.5.4.2 Procedure

Expected Sequence 8.5 (DISPLAY TEXT, Text Attribute with Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.5.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with small font size.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.5.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted normal font size.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.5.1	Normal priority, wait for user to clear message.
16	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with small font size.

Step	Direction	MESSAGE / Action	Comments
17	USER → Terminal	Clear Message	
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.5.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.5.3	Normal priority, wait for user to clear message.
22	Terminal → USER	Display "Text Attribute 3"	Message shall be formatted with normal font size.
23	USER → Terminal	Clear Message	
24	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.5.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.5.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	08	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.5.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.5.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.5.3

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.5.

27.22.4.1.8.6 DISPLAY TEXT (Support of Text Attribute - Bold On)

27.22.4.1.8.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.6.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with bold on for the display text.

27.22.4.1.8.6.3 Test purpose

To verify that the Terminal displays the text formatted according to the bold text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.6.4 Method of test

27.22.4.1.8.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.6.4.2 Procedure

Expected Sequence 8.6 (DISPLAY TEXT, Text Attribute with Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.6.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with bold text on.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.6.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted with bold text off.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.6.1	Normal priority, wait for user to clear message.
16	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with bold text on.
17	USER → Terminal	Clear Message	
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	

Step	Direction	MESSAGE / Action	Comments
19	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.6.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.6.3	Normal priority, wait for user to clear message.
22	Terminal → USER	Display "Text Attribute 3"	Message shall be formatted with bold text off.
23	USER → Terminal	Clear Message	
24	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.6.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.6.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	10	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.6.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.6.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.6.3

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.6.

27.22.4.1.8.7 DISPLAY TEXT (Support of Text Attribute - Italic On)

27.22.4.1.8.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.7.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with italic on for the display text.

27.22.4.1.8.7.3 Test purpose

To verify that the Terminal displays the text formatted according to the italic text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.7.4 Method of test

27.22.4.1.8.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.7.4.2 Procedure

Expected Sequence 8.7 (DISPLAY TEXT, Text Attribute with Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.7.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with italic on.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.7.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted with italic off.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.1	
14	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.7.1	Normal priority, wait for user to clear message.
16	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with italic on.
17	USER → Terminal	Clear Message	
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.7.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.7.3	Normal priority, wait for user to clear message.
22	Terminal → USER	Display "Text Attribute 3"	Message shall be formatted with italic off.
23	USER → Terminal	Clear Message	
24	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.7.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.7.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	20	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.7.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.7.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.7.3

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.7.

27.22.4.1.8.8 DISPLAY TEXT (Support of Text Attribute - Underline On)

27.22.4.1.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.8.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with underline on for the display text.

27.22.4.1.8.8.3 Test purpose

To verify that the Terminal displays the text formatted according to the underline text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.8.4 Method of test

27.22.4.1.8.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.8.4.2 Procedure

Expected Sequence 8.8 (DISPLAY TEXT, Text Attribute with Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.8.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with underline on.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.8.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted with underline off.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.8.1	Normal priority, wait for user to clear message.
16	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with underline on.
17	USER → Terminal	Clear Message	

Step	Direction	MESSAGE / Action	Comments
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.8.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.8.3	Normal priority, wait for user to clear message.
22	Terminal → USER	Display "Text Attribute 3"	Message shall be formatted with underline off.
23	USER → Terminal	Clear Message	
24	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.8.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.8.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	40	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.8.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.8.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.8.3

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.8.

27.22.4.1.8.9 DISPLAY TEXT (Support of Text Attribute - Strikethrough On)

27.22.4.1.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.9.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with underline on for the display text.

27.22.4.1.8.9.3 Test purpose

To verify that the Terminal displays the text formatted according to the strikethrough text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.9.4 Method of test

27.22.4.1.8.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.9.4.2 Procedure

Expected Sequence 8.9 (DISPLAY TEXT, Text Attribute with Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.9.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with strikethrough on.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.9.3	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted with strikethrough off.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.9.1	Normal priority, wait for user to clear message.
16	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with strikethrough on.
17	USER → Terminal	Clear Message	
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.9.3	
20	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
21	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.9.3	Normal priority, wait for user to clear message.
21	Terminal → USER	Display "Text Attribute 3"	Message shall be formatted with strikethrough off.
22	USER → Terminal	Clear Message	
23	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.9.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.9.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	80	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.9.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.9.2

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: DISPLAY TEXT 8.9.3

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Text Attribute 3"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	33						

27.22.4.1.8.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.9.

27.22.4.1.8.10 DISPLAY TEXT (Support of Text Attribute - Foreground and Background Colours)

27.22.4.1.8.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.10.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.31, 8.43 and 8.70.

The Terminal shall support the text attribute with different foreground and background colours for the display text.

27.22.4.1.8.10.3 Test purpose

To verify that the Terminal displays the text formatted according to the foreground and background colour text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.10.4 Method of test

27.22.4.1.8.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.8.10.4.2 Procedure

Expected Sequence 8.10 (DISPLAY TEXT, Text Attribute with Foreground and Background Colours)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.10.1	Normal priority, wait for user to clear message.
4	Terminal → USER	Display "Text Attribute 1"	Message shall be formatted with foreground and background colour according to text attribute configuration.
5	USER → Terminal	Clear Message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.10.1	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 8.10.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 8.10.2	Normal priority, wait for user to clear message.
10	Terminal → USER	Display "Text Attribute 2"	Message shall be formatted with Terminal's default foreground and background colour.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 8.10.1	

PROACTIVE COMMAND: DISPLAY TEXT 8.10.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	31	D0	04	00	10	00	B4

TERMINAL RESPONSE: DISPLAY TEXT 8.10.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 8.10.2

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Text Attribute 2"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	54	65	78	74	20	41	74	74	72	69
	62	75	74	65	20	32						

27.22.4.1.8.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.10.

27.22.4.1.9 DISPLAY TEXT (UCS2 display in Chinese)

27.22.4.1.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.9.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

The Terminal shall support the UCS2 alphabet for the coding of the Chinese character, as defined in the following technical specification: ISO/IEC 10646 [2].

27.22.4.1.9.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.9.4 Method of test

27.22.4.1.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.9.4.2 Procedure

Expected Sequence 9.1 (DISPLAY TEXT, UCS2 coded in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 9.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 9.1.1	Normal priority, wait for user to clear message, UCS2 coded.
4	Terminal → USER	Display "你好"	"Hello" in Chinese.
5	USER → Terminal	Clear message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 9.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 9.1.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: UCS2 (16bit)
Text: "你好"

Coding:

BER-TLV:	D0	10	81	03	01	21	80	82	02	81	02	8D
	05	08	4F	60	59	7D						

TERMINAL RESPONSE: DISPLAY TEXT 9.1.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.1.

27.22.4.1.10 DISPLAY TEXT (UCS2 display in Katakana)

27.22.4.1.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.10.2 Conformance requirement

The Terminal shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.1, 6.5.4, 6.6.1, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

The Terminal shall support the UCS2 alphabet for the coding of the Katakana character, as defined in the following technical specification: ISO/IEC 10646 [2].

27.22.4.1.10.3 Test purpose

To verify that the Terminal displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.10.4 Method of test

27.22.4.1.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.1.10.4.2 Procedure

Expected Sequence 10.1 (DISPLAY TEXT, UCS2 coded in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 10.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 10.1.1	Normal priority, wait for user to clear message, UCS2 coded.
4	Terminal → USER	Display "80ルル"	Characters in Katakana.
5	USER → Terminal	Clear message	
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 10.1.1	

PROACTIVE COMMAND: DISPLAY TEXT 10.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: UCS2 (16bit)
- Text: "80ルル"

Coding:

BER-TLV:	D0	12	81	03	01	21	80	82	02	81	02	8D
	07	08	00	38	00	30	30	EB				

TERMINAL RESPONSE: DISPLAY TEXT 10.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

27.22.4.1.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 10.1.

27.22.4.2 GET INKEY

27.22.4.2.1 GET INKEY(normal)

27.22.4.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.1.2 Conformance Requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.2.1.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the single character entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.1.4 Method of test

27.22.4.2.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be set to a display other than the idle display.

27.22.4.2.1.4.2 Procedure

Expected Sequence 1.1 (GET INKEY, digits only for character, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 1.1.1	Digits only, no help info available.
4	Terminal → USER	Display "Enter "+""	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 1.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 1.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "+" "

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 1.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 1.2 (GET INKEY, digits only for character set, SMS default Alphabet for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 1.2.1	Digits only, no help info available.
4	Terminal → USER	Display "Enter "0""	Text string coding in packed format.
5	USER → Terminal	Enter the input "0" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 1.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 1.2.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: SMS default alphabet
Text: "Enter "0""

Coding:

BER-TLV:	D0	14	81	03	01	22	00	82	02	81	82	8D
	09	00	45	37	BD	2C	07	89	60	22		

TERMINAL RESPONSE: GET INKEY 1.2.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String
Data coding scheme: unpacked, 8 bit data
Text: "0"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	30								

Expected Sequence 1.3 (GET INKEY, backward move)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 1.3.1	Digits only, no help information available.
4	Terminal → USER	Display "<GO-BACKWARDS>"	Text string coding in unpacked format.
5	USER → Terminal	Backwards move MMI action	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 1.3.1	Backward move in the proactive UICC session requested by the user.

PROACTIVE COMMAND: GET INKEY 1.3.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "<GO-BACKWARDS>"

Coding:

BER-TLV:	D0	1A	81	03	01	22	00	82	02	81	82	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E								

TERMINAL RESPONSE: GET INKEY 1.3.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: backward move in the proactive UICC session requested by the user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	11

Expected Sequence 1.4 (GET INKEY, abort)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 1.4.1	Digits only, no help information available.
4	Terminal → USER	Display "<ABORT>"	Text string coding in unpacked format.
5	USER → Terminal	Terminate the Proactive UICC session MMI action	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 1.4.1	Proactive UICC session terminated by the user.

PROACTIVE COMMAND: GET INKEY 1.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<ABORT>"

Coding:

BER-TLV:	D0	13	81	03	01	22	00	82	02	81	82	8D
	08	04	3C	41	42	4F	52	54	3E			

TERMINAL RESPONSE: GET INKEY 1.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	10

Expected Sequence 1.5 (GET INKEY, SMS default alphabet for character set, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 1.5.1	Characters from SMS default alphabet, no help info available.
4	Terminal → USER	Display "Enter "q"""	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "q" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 1.5.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 1.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: SMS default alphabet, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "q""

Coding:

BER-TLV:	D0	15	81	03	01	22	01	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	71	22	

TERMINAL RESPONSE: GET INKEY 1.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: SMS default alphabet, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "q"

Coding:

BER-TLV:	81	03	01	22	01	82	02	82	81	83	01	00
	8D	02	04	71								

Expected Sequence 1.6 (GET INKEY, Max length for the Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 1.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 1.6.1	Digits only, no help info available.
4	Terminal → USER	Display "Enter "x". This command instructs the ME to display text, and to expect the user to enter a single character. Any response entered by the user shall be passed t"	160 characters Text string coding in unpacked format.
5	USER → Terminal	Enter the input "x" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 1.6.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 1.6.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: SMS default alphabet, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "x". This command instructs the ME to display text, and to expect the user to enter a single character. Any response entered by the user shall be passed t"

Coding:

BER-TLV:	D0	81	AD	81	03	01	22	01	82	02	81	82
	8D	81	A1	04	45	6E	74	65	72	20	22	78
	22	2E	20	54	68	69	73	20	63	6F	6D	6D
	61	6E	64	20	69	6E	73	74	72	75	63	74
	73	20	74	68	65	20	4D	45	20	74	6F	20
	64	69	73	70	6C	61	79	20	74	65	78	74
	2C	20	61	6E	64	20	74	6F	20	65	78	70
	65	63	74	20	74	68	65	20	75	73	65	72
	20	74	6F	20	65	6E	74	65	72	20	61	20
	73	69	6E	67	6C	65	20	63	68	61	72	61
	63	74	65	72	2E	20	41	6E	79	20	72	65
	73	70	6F	6E	73	65	20	65	6E	74	65	72
	65	64	20	62	79	20	74	68	65	20	75	73
	65	72	20	73	68	61	6C	6C	20	62	65	20
	70	61	73	73	65	64	20	74				

TERMINAL RESPONSE: GET INKEY 1.6.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: SMS default alphabet, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String
Data coding scheme: unpacked, 8 bit data
Text: "x"

Coding:

BER-TLV:	81	03	01	22	01	82	02	82	81	83	01	00
	8D	02	04	78								

27.22.4.2.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.2.2 GET INKEY (No response from User)

27.22.4.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.2.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.2.2.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

27.22.4.2.2.4 Method of test

27.22.4.2.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

Terminal Manufacturers shall set the "no response from user" period of time as declared in table A.2/2.

The UICC Simulator shall be set to that period of time.

27.22.4.2.2.4.2 Procedure

Expected Sequence 2.1 (GET INKEY, no response from the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 2.1.1	Digits only, no help information available.
4	Terminal → USER	Display "<TIME-OUT>"	Text string coding in unpacked format.
5	USER	Waiting and no completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 2.1.1	No response from user within 5 s after the end of that defined period of time.
7	USER	Check the delay of TERMINAL RESPONSE is reasonable or not	

PROACTIVE COMMAND: GET INKEY 2.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<TIME-OUT>"

Coding:

BER-TLV:	D0	16	81	03	01	22	00	82	02	81	82	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E

TERMINAL RESPONSE: GET INKEY 2.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: No response from user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	12

27.22.4.2.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.2.3 GET INKEY (UCS2 display in Cyrillic)

27.22.4.2.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.3.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally, the Terminal shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.2.3.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.3.4 Method of test

27.22.4.2.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.3.4.2 Procedure

Expected Sequence 3.1 (GET INKEY, Text String coding in UCS2 Alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 3.1.1	Digits only, no help information available.
4	Terminal → USER	Display " ЗДРАВСТВУЙТЕ "	Text string "Hello" in Russian coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 3.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 3.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
Data coding scheme: 16 bit data UCS2 alphabet format
Text: " ЗДРАВСТВУЙТЕ "

Coding:

BER-TLV:	D0	24	81	03	01	22	00	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: GET INKEY 3.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 3.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 3.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 3.2.1	Digits only, no help information available.
4	Terminal → USER	Display "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕЗДРАВСТВУЙ"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 3.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 3.2.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: 16 bit data UCS2 alphabet format
Text: "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"

Coding:

BER-TLV:	D0	81	99	81	03	01	22	00	82	02	81	82
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19

TERMINAL RESPONSE: GET INKEY 3.2.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 3.1 to 3.2.

27.22.4.2.4 GET INKEY (UCS2 entry in Cyrillic)

27.22.4.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.4.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally, the Terminal shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.2.4.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.4.4 Method of test

27.22.4.2.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.4.4.2 Procedure

Expected Sequence 4.1 (GET INKEY, characters from UCS2 alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 4.1.1	Characters from UCS2 alphabet, no help information available.
4	Terminal → USER	Display "Enter"	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "Д" and completion	Cyrillic character, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 4.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 4.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: characters from UCS2 alphabet, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter"

Coding:

BER-TLV:	D0	11	81	03	01	22	03	82	02	81	82	8D
	06	04	45	6E	74	65	72					

TERMINAL RESPONSE: GET INKEY 4.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: characters from UCS2 alphabet, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: 16 bit data UCS2 alphabet format
- Text: "Д"

Coding:

BER-TLV:	81	03	01	22	03	82	02	82	81	83	01	00
	8D	03	08	04	14							

27.22.4.2.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.1.

27.22.4.2.5 GET INKEY ("Yes/No" Response)

27.22.4.2.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.5.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.2.5.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.5.4 Method of test

27.22.4.2.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.5.4.2 Procedure

Expected Sequence 5.1 (GET INKEY, "Yes/No" Response for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 5.1.1	"Yes/No" Response, no help information available.
4	Terminal → USER	Display "Enter YES "	Text string coding in unpacked format.
5	USER → Terminal	Choice "Yes" and Completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 5.1.1	Command performed successfully. Check if it is in accordance with the user choice (value '01' in the Text String data object).
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 5.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 5.1.2	"Yes/No" Response, no help information available.
10	Terminal → USER	Display "Enter NO:"	Text string coding in unpacked format.
11	USER → Terminal	Choice "No" and Completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 5.1.2	Command performed successfully. Check if it is in accordance with the user choice (value '00' in the Text String data object).

PROACTIVE COMMAND: GET INKEY 5.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: "Yes/No" Response, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter YES"

Coding:

BER-TLV:	D0	15	81	03	01	22	04	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	59	45	53	

TERMINAL RESPONSE: GET INKEY 5.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: "Yes/No" Response, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: 01 (hex)

Coding:

BER-TLV:	81	03	01	22	04	82	02	82	81	83	01	00
	8D	02	04	01								

PROACTIVE COMMAND: GET INKEY 5.1.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: "Yes/No" Response, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter NO"

Coding:

BER-TLV:	D0	14	81	03	01	22	04	82	02	81	82	8D
	09	04	45	6E	74	65	72	20	4E	4F		

TERMINAL RESPONSE: GET INKEY 5.1.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: "Yes/No" Response, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: 00 (hex)

Coding:

BER-TLV:	81	03	01	22	04	82	02	82	81	83	01	00
	8D	02	04	00								

27.22.4.2.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 5.1.

27.22.4.2.6 GET INKEY (display of Icon)

27.22.4.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.6.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

27.22.4.2.6.3 Test purpose

To verify that the Terminal displays the Icon contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.6.4 Method of test

27.22.4.2.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.6.4.2 Procedure

Expected Sequence 6.1A (GET INKEY, Basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.1.1	BASIC-ICON self-explanatory for the Text string.
4	Terminal → USER	Display the BASIC-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.1.1A	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 6.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<NO-ICON>"

Icon Identifier
Icon qualifier: self-explanatory
Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	01									

TERMINAL RESPONSE: GET INKEY 6.1.1A

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.1B (GET INKEY, Basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.1.1	BASIC-ICON self-explanatory for the Text string.
4	Terminal → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.1.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INKEY 6.1.1B

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.2A (GET INKEY, Basic icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.2.1	BASIC-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<BASIC-ICON>" and Display the BASIC-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.2.1A	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 6.2.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "<BASIC-ICON>"

Icon Identifier
Icon qualifier: not self-explanatory
Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1C	81	03	01	22	00	82	02	81	82	8D
	0D	04	3C	42	41	53	49	43	2D	49	43	4F
	4E	3E	1E	02	01	01						

TERMINAL RESPONSE: GET INKEY 6.2.1A

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.2B (GET INKEY, Basic icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.2.1	BASIC-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<BASIC-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.2.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INKEY 6.2.1B

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.3A (GET INKEY, Colour icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.3.1	COLOUR-ICON self-explanatory for the Text string.
4	Terminal → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.3.1A	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 6.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<NO-ICON>"

Icon Identifier
- Icon qualifier: self-explanatory
- Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	02									

TERMINAL RESPONSE: GET INKEY 6.3.1A

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.3B (GET INKEY, Colour icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.3.1	COLOUR-ICON self-explanatory for the Text string.
4	Terminal → USER	Display "<NO-ICON>"for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.3.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INKEY 6.3.1B

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.4A (GET INKEY, Colour icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.4.1	COLOUR-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<COLOUR-ICON>" and Display the COLOUR-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.4.1A	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 6.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<COLOUR-ICON>"

Icon Identifier
- Icon qualifier: not self-explanatory
- Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1D	81	03	01	22	00	82	02	81	82	8D
	0E	04	3C	43	4F	4C	4F	55	52	2D	49	43
	4F	4E	3E	1E	02	01	02					

TERMINAL RESPONSE: GET INKEY 6.4.1A

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.4B (GET INKEY, Colour icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 6.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 6.4.1	COLOUR-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<COLOUR-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 6.4.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INKEY 6.4.1B

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	04
	8D	02	04	2B								

27.22.4.2.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.1A to 6.4B.

27.22.4.2.7 GET INKEY (Help Information)

27.22.4.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.7.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

27.22.4.2.7.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.7.4 Method of test

27.22.4.2.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.7.4.2 Procedure

Expected Sequence 7.1 (GET INKEY, help information available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 7.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 7.1.1	Digits only, help information available.
4	Terminal → USER	Display "Enter "+""	Text string coding in unpacked format.
5	USER → Terminal	Press "help" key	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 7.1.1	Help info required.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 7.1.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 7.1.1	
10	Terminal → USER	Display 'Help information'	Text string coded in unpacked format.
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 7.1.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 7.1.2	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 7.1.2	Digits only, help information available.
16	Terminal → USER	Display "Enter "+""	Repetition of get inkey.
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 7.1.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 7.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "+""

Coding:

BER-TLV:	D0	15	81	03	01	22	80	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 7.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Help information required by the user

Coding:

BER-TLV:	81	03	01	22	80	82	02	82	81	83	01	13

PROACTIVE COMMAND: DISPLAY TEXT 7.1.1

Logically:

Command details
Command number: 1
Command type: DISPLAY TEXT
Command qualifier: normal priority, wait for user to clear message

Device identities
Source device: UICC
Destination device: Display

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Help information"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	48	65	6C	70	20	69	6E	66	6F	72
	6D	61	74	69	6F	6E						

TERMINAL RESPONSE: DISPLAY TEXT 7.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: GET INKEY 7.1.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Coding:

BER-TLV:	D0	15	81	03	01	22	80	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 7.1.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding:

BER-TLV:	81	03	01	22	80	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 7.1.

27.22.4.2.8 GET INKEY (Variable Time out)

27.22.4.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.8.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.31.

27.22.4.2.8.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.8.4 Method of test

27.22.4.2.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.8.4.2 Procedure

Expected Sequence 8.1 (GET INKEY, variable time out of 10 seconds)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 8.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 8.1.1	
4	Terminal → USER	Display "Enter "+"" for 10 seconds	Text string coding in unpacked format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 8.1.1	No response from user.

PROACTIVE COMMAND: GET INKEY 8.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "+""

Duration
Time unit: Seconds
Time interval: 10

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	84
	02	01	0A									

TERMINAL RESPONSE: GET INKEY 8.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: No response from user

Duration
Time unit: seconds
Time interval: any value greater than 10

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	12
	04	02	01	Cond 001								

Cond001: Coding of any value greater than 10.

27.22.4.2.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.1.

27.22.4.2.9 GET INKEY (Support of Text Attribute)

27.22.4.2.9.1 GET INKEY (Support of Text Attribute - Left Alignment)

27.22.4.2.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.1.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.1.3 Test purpose

To verify that the Terminal displays the text formatted according to the left alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.1.4 Method of test

27.22.4.2.9.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.1.4.2 Procedure

Expected Sequence 9.1 (GET INKEY, Text attribute with Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.1.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with left alignment.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.1.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/6, no alignment change will take place.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.1.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "+""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.1.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.1.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.1.

27.22.4.2.9.2 GET INKEY (Support of Text Attribute - Center Alignment)

27.22.4.2.9.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.2.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.2.3 Test purpose

To verify that the Terminal displays the text formatted according to the center alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.2.4 Method of test

27.22.4.2.9.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.2.4.2 Procedure

Expected Sequence 9.2 (GET INKEY, Text attribute with Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.2.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with center alignment.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.2.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.2.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.2.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/6, no alignment change will take place.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.2.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	01	B4							

TERMINAL RESPONSE: GET INKEY 9.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.2.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.2.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.2.

27.22.4.2.9.3 GET INKEY (Support of Text Attribute - Right Alignment)

27.22.4.2.9.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.3.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.3.3 Test purpose

To verify that the Terminal displays the text formatted according to the right alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.3.4 Method of test

27.22.4.2.9.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.3.4.2 Procedure

Expected Sequence 9.3 (GET INKEY, Text attribute with Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.3.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with right alignment.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.3.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.3.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.3.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/6, no alignment change will take place.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.3.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	02	B4							

TERMINAL RESPONSE: GET INKEY 9.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.3.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.3.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.3.

27.22.4.2.9.4 GET INKEY (Support of Text Attribute - Large Font Size)

27.22.4.2.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.4.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.4.3 Test purpose

To verify that the Terminal displays the text formatted according to the large font size text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.4.4 Method of test

27.22.4.2.9.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.4.4.2 Procedure

Expected Sequence 9.4 (GET INKEY, Text attribute with Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.4.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with large font size.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.4.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.4.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with normal font size.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.4.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.4.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.4.1	
16	Terminal → USER	Display "Enter "+""	Message shall be formatted with large font size.
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.4.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.4.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.4.3	
22	Terminal → USER	Display "Enter "#""	Message shall be formatted with normal font size.
23	USER → Terminal	Enter the input "#" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.4.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "+""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	04	B4							

TERMINAL RESPONSE: GET INKEY 9.4.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.4.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.4.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.4.3

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.4.

27.22.4.2.9.5 GET INKEY (Support of Text Attribute - Small Font Size)

27.22.4.2.9.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.5.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.5.3 Test purpose

To verify that the Terminal displays the text formatted according to the small font size text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.5.4 Method of test

27.22.4.2.9.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.5.4.2 Procedure

Expected Sequence 9.5 (GET INKEY, Text attribute with Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.5.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with small font size.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.5.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.5.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.5.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with normal font size.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.5.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.5.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.5.1	
16	Terminal → USER	Display "Enter "+""	Message shall be formatted with small font size.

Step	Direction	MESSAGE / Action	Comments
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.5.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.5.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.5.3	
22	Terminal → USER	Display "Enter "#""	Message shall be formatted with normal font size.
23	USER → Terminal	Enter the input "#" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.5.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	08	B4							

TERMINAL RESPONSE: GET INKEY 9.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.5.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.5.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.5.3

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.5.

27.22.4.2.9.6 GET INKEY (Support of Text Attribute - Bold On)

27.22.4.2.9.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.6.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.6.3 Test purpose

To verify that the Terminal displays the text formatted according to the bold text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.6.4 Method of test

27.22.4.2.9.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.6.4.2 Procedure

Expected Sequence 9.6 (GET INKEY, Text attribute with Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.6.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with bold on.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.6.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.6.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.6.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with bold off.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.6.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.6.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.6.1	
16	Terminal → USER	Display "Enter "+""	Message shall be formatted with bold on.
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.6.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.6.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.6.3	
22	Terminal → USER	Display "Enter "#""	Message shall be formatted with bold off.
23	USER → Terminal	Enter the input "#" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.6.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.6.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	10	B4							

TERMINAL RESPONSE: GET INKEY 9.6.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.6.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.6.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.6.3

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.6.

27.22.4.2.9.7 GET INKEY (Support of Text Attribute - Italic On)

27.22.4.2.9.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.7.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.7.3 Test purpose

To verify that the Terminal displays the text formatted according to the italic text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.7.4 Method of test

27.22.4.2.9.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.7.4.2 Procedure

Expected Sequence 9.7 (GET INKEY, Text attribute with Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.7.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with italic on.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.7.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.7.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.7.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with italic off.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.7.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.7.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.7.1	
16	Terminal → USER	Display "Enter "+""	Message shall be formatted with italic on.
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.7.1	Command performed successfully.

Step	Direction	MESSAGE / Action	Comments
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.7.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.7.3	
22	Terminal → USER	Display "Enter "#""	Message shall be formatted with italic off.
23	USER → Terminal	Enter the input "#" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.7.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.7.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	20	B4							

TERMINAL RESPONSE: GET INKEY 9.7.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.7.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.7.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.7.3

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.7.

27.22.4.2.9.8 GET INKEY (Support of Text Attribute - Underline On)

27.22.4.2.9.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.8.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.8.3 Test purpose

To verify that the Terminal displays the text formatted according to the underline text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.8.4 Method of test

27.22.4.2.9.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.8.4.2 Procedure

Expected Sequence 9.8 (GET INKEY, Text attribute with Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.8.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with underline on.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.8.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.8.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.8.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with underline off.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.8.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.8.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.8.1	
16	Terminal → USER	Display "Enter "+""	Message shall be formatted with underline on.
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.8.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.8.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.8.3	
22	Terminal → USER	Display "Enter "#""	Message shall be formatted with underline off.
23	USER → Terminal	Enter the input "#" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.8.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.8.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	40	B4							

TERMINAL RESPONSE: GET INKEY 9.8.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.8.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.8.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.8.3

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.8.

27.22.4.2.9 GET INKEY (Support of Text Attribute - Strikethrough On)

27.22.4.2.9.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.9.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.9.3 Test purpose

To verify that the Terminal displays the text formatted according to the strikethrough text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.9.4 Method of test

27.22.4.2.9.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.9.4.2 Procedure

Expected Sequence 9.9 (GET INKEY, Text attribute with Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.9.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with strikethrough on.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.9.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.9.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.9.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with strikethrough off.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.9.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.9.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.9.1	
16	Terminal → USER	Display "Enter "+""	Message shall be formatted with strikethrough on.
17	USER → Terminal	Enter the input "+" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.9.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.9.3	
20	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
21	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.9.3	
22	Terminal → USER	Display "Enter "#""	Message shall be formatted with strikethrough off.
23	USER → Terminal	Enter the input "#" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.9.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.9.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	80	B4							

TERMINAL RESPONSE: GET INKEY 9.9.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.9.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "#""

Text Attribute
- Formatting position: 0
- Formatting length: 9
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Text colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.9.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

PROACTIVE COMMAND: GET INKEY 9.9.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

PROACTIVE COMMAND: GET INKEY 9.9.3

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

27.22.4.2.9.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.9.

27.22.4.2.9.10 GET INKEY (Support of Text Attribute - Foreground and Background Colour)

27.22.4.2.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.10.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.5.4, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.8, 8.15, 8.15.1, 8.15.2, 8.15.3, 8.31 and 8.70.

27.22.4.2.9.10.3 Test purpose

To verify that the Terminal displays the text formatted according to the foreground and background colour text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.10.4 Method of test

27.22.4.2.9.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.2.9.10.4.2 Procedure

Expected Sequence 9.10 (GET INKEY, Text attribute with Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.10.1	
4	Terminal → USER	Display "Enter "+""	Message shall be formatted with foreground and background colour according to text attribute configuration.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.10.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 9.10.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 9.10.2	
10	Terminal → USER	Display "Enter "#""	Message shall be formatted with Terminal's default foreground and background colour.
11	USER → Terminal	Enter the input "#" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 9.10.2	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 9.10.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter "+""

Text Attribute
Formatting position: 0
Formatting length: 9
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	1B	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	D0
	04	00	09	00	B4							

TERMINAL RESPONSE: GET INKEY 9.10.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

PROACTIVE COMMAND: GET INKEY 9.10.2

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter "#""

Coding:

BER-TLV:	D0	15	81	03	01	22	00	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	23	22	

TERMINAL RESPONSE: GET INKEY 9.10.2

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "#"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	23								

27.22.4.2.9.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.10.

27.22.4.2.10 GET INKEY (UCS2 display in Chinese)

27.22.4.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.10.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally, the Terminal shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.2.10.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.10.4 Method of test

27.22.4.2.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.10.4.2 Procedure

Expected Sequence 10.1 (GET INKEY, Text String coding in UCS2 Alphabet in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 10.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 10.1.1	Digits only, no help information available.
4	Terminal → USER	Display "你好"	Text string "Hello" in Chinese coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 10.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 10.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: 16 bit data UCS2 alphabet format
- Text: "你好"

Coding:

BER-TLV:	D0	10	81	03	01	22	00	82	02	81	82	8D
	05	08	4F	60	59	7D						

TERMINAL RESPONSE: GET INKEY 10.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 10.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 10.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 10.2.1	Digits only, no help information available.
4	Terminal → USER	Display "你好"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 10.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 10.2.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: 16 bit data UCS2 alphabet format
Text:
"你好"

Coding:

BER-TLV:	D0	81	99	81	03	01	22	00	82	02	81	82
	8D	81	8D	08	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D

TERMINAL RESPONSE: GET INKEY 10.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: unpacked, 8 bit data
- Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 10.1 to 10.2.

27.22.4.2.11 GET INKEY (UCS2 entry in Chinese)

27.22.4.2.11.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.11.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally, the Terminal shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.2.11.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.11.4 Method of test

27.22.4.2.11.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.11.4.2 Procedure

Expected Sequence 11.1 (GET INKEY, characters from UCS2 alphabet in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 11.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 11.1.1	Characters from UCS2 alphabet, no help information available.
4	Terminal → USER	Display "Enter"	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "好" and completion	Chinese character, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 11.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 11.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: characters from UCS2 alphabet, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter"

Coding:

BER-TLV:	D0	11	81	03	01	22	03	82	02	81	82	8D
	06	04	45	6E	74	65	72					

TERMINAL RESPONSE: GET INKEY 11.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: characters from UCS2 alphabet, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String:
- Data coding scheme: 16 bit data UCS2 alphabet format
- Text: "好"

Coding:

BER-TLV:	81	03	01	22	03	82	02	82	81	83	01	00
	8D	03	08	59	7D							

27.22.4.2.11.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 11.1.

27.22.4.2.12 GET INKEY (UCS2 display in Katakana)

27.22.4.2.12.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.12.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally, the Terminal shall support the UCS2 facility for the coding of the Katakana character, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.2.12.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.12.4 Method of test

27.22.4.2.12.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.12.4.2 Procedure

Expected Sequence 12.1 (GET INKEY, Text String coding in UCS2 Alphabet in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 12.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 12.1.1	Digits only, no help information available.
4	Terminal → USER	Display "ル"	Text string character in Katakana coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 12.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 12.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: 16 bit data UCS2 alphabet format
Text: "ル"

Coding:

BER-TLV:	D0	0E	81	03	01	22	00	82	02	81	82	8D
	03	08	30	EB								

TERMINAL RESPONSE: GET INKEY 12.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 12.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 12.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 12.2.1	Digits only, no help information available.
4	Terminal → USER	Display "ルル"	Text string length 70 characters, coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 12.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 12.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
    Source device: UICC
    Destination device: Terminal

Text String
    Data coding scheme: 16 bit data UCS2 alphabet format
    Text:
    "ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル
    ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル"

Coding:

BER-TLV:	D0	81	99	81	03	01	22	00	82	02	81	82
	8D	81	8D	08	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB

TERMINAL RESPONSE: GET INKEY 12.2.1

Logically:

Command details
    Command number: 1
    Command type: GET INKEY
    Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
    Source device: Terminal
    Destination device: UICC

Result
    General Result: Command performed successfully

Text String:
    Data coding scheme: unpacked, 8 bit data
    Text: "+"

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.2.12.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 12.1 to 12.2.

27.22.4.2.13 GET INKEY (UCS2 entry in Katakana)

27.22.4.2.13.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.13.2 Conformance requirement

The Terminal shall support the GET INKEY command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.2, 6.6.2, 6.8, 6.11, 8.6, 8.7, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally, the Terminal shall support the UCS2 facility for the coding of the Katakana character, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.2.13.3 Test purpose

To verify that the Terminal displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.13.4 Method of test

27.22.4.2.13.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.2.13.4.2 Procedure

Expected Sequence 13.1 (GET INKEY, characters from UCS2 alphabet in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INKEY 13.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INKEY 13.1.1	Characters from UCS2 alphabet, no help information available.
4	Terminal → USER	Display "Enter"	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "ル" and completion	Katakana character, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INKEY 13.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INKEY 13.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INKEY
- Command qualifier: characters from UCS2 alphabet, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter"

Coding:

BER-TLV:	D0	11	81	03	01	22	03	82	02	81	82	8D
	06	04	45	6E	74	65	72					

TERMINAL RESPONSE: GET INKEY 13.1.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: characters from UCS2 alphabet, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text String:
Data coding scheme: 16 bit data UCS2 alphabet format
Text: "ル"

Coding:

BER-TLV:	81	03	01	22	03	82	02	82	81	83	01	00
	8D	03	08	30	EB							

27.22.4.2.13.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 13.1.

27.22.4.3 GET INPUT

27.22.4.3.1 GET INPUT (normal)

27.22.4.3.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.1.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.3.1.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.1.4 Method of test

27.22.4.3.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.1.4.2 Procedure

Expected Sequence 1.1 (GET INPUT, digits only, SMS default alphabet, Terminal to echo text, Terminal supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help info available.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5 Text string coding in unpacked format.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 1.1.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

Expected Sequence 1.2 (GET INPUT, digits only, SMS default alphabet, Terminal to echo text, packing SMS Point-to-point required by Terminal)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.2.1	Digits only, SMS default alphabet, Terminal to echo text, packing required, no help information available.
4	Terminal → USER	Display "Enter 67*#+"	Range of expected length is 5-5 Text string coding in packed format.
5	USER → Terminal	Enter the input "67*#+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in packed SMS format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: SMS default alphabet
Text: "Enter 67*#+"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	1A	81	03	01	23	08	82	02	81	82	8D
	0B	00	45	37	BD	2C	07	D9	6E	AA	D1	0A
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 1.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in packed SMS format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: packed SMS format
- Text: "67*#+"

Coding:

BER-TLV:	81	03	01	23	08	82	02	82	81	83	01	00
	8D	06	00	B6	9B	6A	B4	02				

Expected Sequence 1.3 (GET INPUT, character set, SMS Default Alphabet, Terminal to echo text, Terminal supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.3.1	Character set, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter AbCdE"	Range of expected length is 5-5 Text string coding in unpacked format.
5	USER → Terminal	Enter the input "AbCdE" and completion	The Terminal may echo the input.
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.3.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: Character set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter AbCdE"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	01	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	41	62	43	64
	45	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 1.3.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: Character set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "AbCdE"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	41	62	43	64	45				

Expected Sequence 1.4 (GET INPUT, digits only, SMS default alphabet, Terminal to hide text, Terminal supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.4.1	Digits only, SMS default alphabet, Terminal to hide text, packing not required, no help information available.
4	Terminal → USER	Display "Password 1<SEND>2345678"	Range of expected length is 4-8 Text string coding in unpacked format.
5	USER → Terminal	Enter the input "2345678" and completion	User's input not to be revealed at any time, optionally indication of key entries such as by displaying "*".
6	Terminal → USER	Input not revealed	optionally indication of key entries such as by displaying "*".
7	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.4.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to hide text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Password 1<SEND>2345678"

Response length
- Minimum length: 4
- Maximum length: 8

Coding:

BER-TLV:	D0	27	81	03	01	23	04	82	02	81	82	8D
	18	04	50	61	73	73	77	6F	72	64	20	31
	3C	53	45	4E	44	3E	32	33	34	35	36	37
	38	91	02	04	08							

TERMINAL RESPONSE: GET INPUT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to hide text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "2345678"

Coding:

BER-TLV:	81	03	01	23	04	82	02	82	81	83	01	00
	8D	08	04	32	33	34	35	36	37	38		

Expected Sequence 1.5 (GET INPUT, digits only, SMS default alphabet, Terminal to echo text, Terminal supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.5.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter 1..9,0..9,0(1)"	Range of expected length is 1-20 Text string coding in unpacked format.
5	USER → Terminal	Completion without input	
6	Terminal → USER	The Terminal MMI takes action to manage the entry of correct numbers of characters.	
7	USER → Terminal	Enter "12345678901234567890" and completion	
8	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.5.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 1..9,0..9,0(1)"

Response length
- Minimum length: 1
- Maximum length: 20

Coding:

BER-TLV:	D0	24	81	03	01	23	00	82	02	81	82	8D
	15	04	45	6E	74	65	72	20	31	2E	2E	39
	2C	30	2E	2E	39	2C	30	28	31	29	91	02
	01	14										

TERMINAL RESPONSE: GET INPUT 1.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345678901234567890"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	15	04	31	32	33	34	35	36	37	38	39
	30	31	32	33	34	35	36	37	38	39	30	

Expected Sequence 1.6 (GET INPUT, backwards move)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.6.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "<GO-BACKWARDS>"	Range of expected length is 0-8 Text string coding in unpacked format.
5	USER → Terminal	Backwards move MMI action	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.6.1	Backward move in the proactive UICC session requested by the user.

PROACTIVE COMMAND: GET INPUT 1.6.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text string
Data coding scheme: unpacked, 8 bit data
Text: "<GO-BACKWARDS>"

Response length
Minimum length: 0
Maximum length: 8

Coding:

BER-TLV:	D0	1E	81	03	01	23	00	82	02	81	82	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E	91	02	00	08				

TERMINAL RESPONSE: GET INPUT 1.6.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: backward move in the proactive UICC session requested by the user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	11

Expected Sequence 1.7 (GET INPUT, abort)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.7.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "<ABORT>"	Range if expected length is 0-8 Text string coding in unpacked format.
5	USER → Terminal	Terminate the Proactive UICC session MMI action	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.7.1	Proactive UICC session terminated by the user.

PROACTIVE COMMAND: GET INPUT 1.7.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "<ABORT>"

Response length
- Minimum length: 0
- Maximum length: 8

Coding:

BER-TLV:	D0	17	81	03	01	23	00	82	02	81	82	8D
	08	04	3C	41	42	4F	52	54	3E	91	02	00
	08											

TERMINAL RESPONSE: GET INPUT 1.7.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	10

Expected Sequence 1.8 (GET INPUT, digits only, SMS default alphabet, Terminal to echo text, Terminal supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.8.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###"	Range of length expected is 160-160 Text string coding in unpacked format.
5	USER → Terminal	Enter the input "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.8.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.8.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###"

Response length
- Minimum length: 160
- Maximum length: 160

Coding:

BER-TLV:	D0	81	B1	81	03	01	23	00	82	02	81	82
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23	91	02	A0	A0

TERMINAL RESPONSE: GET INPUT 1.8.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "***1111111111###***2222222222###***
3333333333###***4444444444###
5555555555###6666666666###
7777777777###8888888888###
9999999999###0000000000###"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

Expected Sequence 1.9 (GET INPUT, digits only, SMS default alphabet, Terminal to echo text, Terminal supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.9.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "<SEND>"	Range of expected length is 0-1 Text string coding in unpacked format.
5	USER → Terminal	Completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.9.1A Or TERMINAL RESPONSE: GET INPUT 1.9.1B	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.9.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text string
Data coding scheme: unpacked, 8 bit data
Text: "<SEND>"

Response length
Minimum length: 0
Maximum length: 1

Coding:

BER-TLV:	D0	16	81	03	01	23	00	82	02	81	82	8D
	07	04	3C	53	45	4E	44	3E	91	02	00	01

TERMINAL RESPONSE: GET INPUT 1.9.1A

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: empty string

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	01	04									

TERMINAL RESPONSE: GET INPUT 1.9.1B

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Contents: Null data object

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	00										

Expected Sequence 1.10 (GET INPUT, null length for the text string, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 1.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 1.10.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help info available.
4	Terminal → USER	Request for input	Range of expected length is 1-5 Null Text string.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 1.10.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 1.10.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text string
- Text: length null (00).

Response length
- Minimum length: 1
- Maximum length: 5

Coding:

BER-TLV:	D0	0F	81	03	01	23	00	82	02	81	82	8D
	00	91	02	01	05							

TERMINAL RESPONSE: GET INPUT 1.10.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

27.22.4.3.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.10.

27.22.4.3.2 GET INPUT (No response from User)

27.22.4.3.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.2.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in the following technical specifications:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.3.2.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

27.22.4.3.2.4 Method of test

27.22.4.3.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

Terminal Manufacturers shall set the "no response from user" period of time as declared in table A.2/3.

The UICC Simulator shall be set to that period of time.

27.22.4.3.2.4.2 Procedure

Expected Sequence 2.1 (GET INPUT, no response from the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 2.1.1	Digits only, SMS default alphabet Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "<TIME-OUT>"	Range of expected length is 0-10 Text string coding in unpacked format.
5	USER	Waiting and no completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 2.1.1	No response from user within 5 s after the end of that defined period of time.

PROACTIVE COMMAND: GET INPUT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<TIME-OUT>"

Response length
- Minimum length: 0
- Maximum length: 10

Coding:

BER-TLV:	D0	1A	81	03	01	23	00	82	02	81	82	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E
	91	02	00	0A								

TERMINAL RESPONSE: GET INPUT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: No response from user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	12

27.22.4.3.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.3.3 GET INPUT (UCS2 display in Cyrillic)

27.22.4.3.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.3.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally the Terminal shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.3.3.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.3.4 Method of test

27.22.4.3.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.3.4.2 Procedure

Expected Sequence 3.1 (GET INPUT, text string coding in UCS2 in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 3.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display " ЗДРАВСТВУЙТЕ "	Range of expected length is 5-5 Text string "Hello" in Russian coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "HELLO" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 3.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 3.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: 16 bit data UCS2 alphabet format
- Text: "ЗДРАВСТВУЙТЕ"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	28	81	03	01	23	01	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	91	02	05	05						

TERMINAL RESPONSE: GET INPUT 3.1.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

Expected Sequence 3.2 (GET INPUT, max length for the text string coding in UCS2 in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 3.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 3.2.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"	Range of expected length is 5-5 Text string length 70 characters, coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "HELLO" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 3.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 3.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT

Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: 16 bit data UCS2 alphabet format
Text: "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 3.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 3.1 to 3.2.

27.22.4.3.4 GET INPUT (UCS2 entry in Cyrillic)

27.22.4.3.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.4.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally the Terminal shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [2].

27.22.4.3.4.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.4.4 Method of test

27.22.4.3.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.4.4.2 Procedure

Expected Sequence 4.1 (GET INPUT, character set from UCS2 alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 4.1.1	Character set, UCS2 alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter Hello"	Range of expected length is 12-12 Text string coding in unpacked format.
5	USER → Terminal	Enter the input "ЗДРАВСТВУЙТЕ " and completion	"Hello" in Russian, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 4.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 4.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter Hello"

Response length
Minimum length: 12
Maximum length: 12

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	0C	0C							

TERMINAL RESPONSE: GET INPUT 4.1.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: UCS2
Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	19	08	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15									

Expected Sequence 4.2 (GET INPUT, character set from UCS2 alphabet in Cyrillic, Max length for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 4.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 4.2.1	Character set, UCS2 alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter Hello"	Range of expected length is no limit Text string coding in unpacked format.
5	USER → Terminal	Enter the input "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ" and completion	Input length 70 characters, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 4.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 4.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter Hello"

Response length
- Minimum length: 5
- Maximum length: No maximum length requirement

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

TERMINAL RESPONSE: GET INPUT 4.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result

General Result:	Command performed successfully
Data coding scheme:	UCS2
Text:	"ЗДРАВСТВУЙТЕ…ЗДРАВСТВУЙ" (70 chars)

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19

27.22.4.3.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 4.1 to 4.2.

27.22.4.3.5 GET INPUT (default text)

27.22.4.3.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.5.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.23.

27.22.4.3.5.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.5.4 Method of test

27.22.4.3.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.5.4.2 Procedure

Expected Sequence 5.1 (GET INPUT, default text for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 5.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter 12345" Display "12345"	Range of expected length is 5-5 Text string coding in unpacked format Default text coding in unpacked format.
5	USER → Terminal	Completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 5.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 5.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Default Text
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	D0	23	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	17	06	04	31	32	33	34
	35											

TERMINAL RESPONSE: GET INPUT 5.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

Expected Sequence 5.2 (GET INPUT, default text for the input with max length, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 5.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 5.2.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter:" Display default text input: "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###"	Range of expected length is 160-160 Text string coding in unpacked format Default text length 160 bytes coding in unpacked format.
5	USER → Terminal	Completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 5.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 5.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter:"

Response length
Minimum length: 160
Maximum length: 160

Default Text
Data coding scheme: unpacked, 8 bit data
Text: "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###"

Coding:

BER-TLV:	D0	81	BA	81	03	01	23	00	82	02	81	82
	8D	07	04	45	6E	74	65	72	3A	91	02	A0
	A0	17	81	A1	04	2A	2A	2A	31	31	31	31
	31	31	31	31	31	31	23	23	23	2A	2A	2A
	32	32	32	32	32	32	32	32	32	32	23	23
	23	2A	2A	2A	33	33	33	33	33	33	33	33
	33	33	23	23	23	2A	2A	2A	34	34	34	34
	34	34	34	34	34	34	23	23	23	2A	2A	2A
	35	35	35	35	35	35	35	35	35	35	23	23
	23	2A	2A	2A	36	36	36	36	36	36	36	36
	36	36	23	23	23	2A	2A	2A	37	37	37	37
	37	37	37	37	37	37	23	23	23	2A	2A	2A
	38	38	38	38	38	38	38	38	38	38	23	23
	23	2A	2A	2A	39	39	39	39	39	39	39	39
	39	39	23	23	23	2A	2A	2A	30	30	30	30
	30	30	30	30	30	30	23	23	23			

TERMINAL RESPONSE: GET INPUT 5.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

27.22.4.3.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 5.1 to 5.2.

27.22.4.3.6 GET INPUT (display of Icon)

27.22.4.3.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.6.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.5.4, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 12.31.

27.22.4.3.6.3 Test purpose

To verify that the Terminal displays the Icon contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.6.4 Method of test

27.22.4.3.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.6.4.2 Procedure

Expected Sequence 6.1A (GET INPUT, Basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.1.1	BASIC-ICON self-explanatory for the Text string.
4	Terminal → USER	Display the BASIC-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.1.1A	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 6.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<NO-ICON>"

Response length
Minimum length: 0
Maximum length: 10

Icon Identifier
Icon qualifier: self-explanatory
Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1D	81	03	01	23	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	91
	02	00	0A	1E	02	00	01					

TERMINAL RESPONSE: GET INPUT 6.1.1A

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.1B (GET INPUT, Basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.1.1	BASIC-ICON self-explanatory for the Text string.
4	Terminal → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.1.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INPUT 6.1.1B

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.2A (GET INPUT, Basic icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.2.1	BASIC-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<BASIC-ICON>" and Display the BASIC-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.2.1A	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 6.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "<BASIC-ICON>"

Response length
Minimum length: 0
Maximum length: 10

Icon Identifier
Icon qualifier: not self-explanatory
Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	20	81	03	01	23	00	82	02	81	82	8D
	0D	04	3C	42	41	53	49	43	2D	49	43	4F
	4E	3E	91	02	00	0A	1E	02	01	01		

TERMINAL RESPONSE: GET INPUT 6.2.1A

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.2B (GET INPUT, Basic icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.2.1	BASIC-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<BASIC-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.2.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INPUT 6.2.1B

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.3A (GET INPUT, Colour icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.3.1	COLOUR-ICON self-explanatory for the Text string.
4	Terminal → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.3.1A	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 6.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<NO-ICON>"

Response length
- Minimum length: 0
- Maximum length: 10

Icon Identifier
- Icon qualifier: self-explanatory
- Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1D	81	03	01	23	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	91
	02	00	0A	1E	02	00	02					

TERMINAL RESPONSE: GET INPUT 6.3.1A

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.3B (GET INPUT, Colour icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.3.1	COLOUR-ICON self-explanatory for the Text string.
4	Terminal → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.3.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INPUT 6.3.1B

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

Expected Sequence 6.4A (GET INPUT, Colour icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.4.1	COLOUR-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<COLOUR-ICON>" and Display the COLOUR-ICON for the prompt	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.4.1A	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 6.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "<COLOUR-ICON>"

Response length
- Minimum length: 0
- Maximum length: 10

Icon Identifier
- Icon qualifier: not self-explanatory
- Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0E	04	3C	43	4F	4C	4F	55	52	2D	49	43
	4F	4E	3E	91	02	00	0A	1E	02	01	02	

TERMINAL RESPONSE: GET INPUT 6.4.1A

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

Expected Sequence 6.4B (GET INPUT, Colour icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 6.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 6.4.1	COLOUR-ICON non self-explanatory for the Text string.
4	Terminal → USER	Display "<COLOUR-ICON>" for the prompt without the icon	Text string coding in unpacked format.
5	USER → Terminal	Enter the input "+" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 6.4.1B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: GET INPUT 6.4.1B

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Text string
Data coding scheme: unpacked, 8 bit data
Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

27.22.4.3.6.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 6.1A to 6.4B.

27.22.4.3.7 GET INPUT (Help Information)

27.22.4.3.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.7.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

27.22.4.3.7.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns a 'help information required by the user' result value in the TERMINAL RESPONSE command sent to the UICC if the user has indicated the need to get help information.

27.22.4.3.7.4 Method of test

27.22.4.3.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.7.4.2 Procedure

Expected Sequence 7.1 (GET INPUT, digits only, Terminal to echo text, Terminal supporting 8 bit data Message, help information available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 7.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 7.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, help information available.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5 Text string coding in unpacked format.
5	USER → Terminal	Press "help"	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 7.1.1	Command performed, help information required by user.

PROACTIVE COMMAND: GET INPUT 7.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	80	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 7.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text, help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Help information required by the user

Coding:

BER-TLV:	81	03	01	23	80	82	02	82	81	83	01	13

27.22.4.3.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 7.1.

27.22.4.3.8 GET INPUT (Support of Text Attribute)

27.22.4.3.8.1 GET INPUT (Support of Text Attribute - Left Alignment)

27.22.4.3.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.1.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.1.3 Test purpose

To verify that the Terminal displays the text formatted according to the left alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.1.4 Method of test

27.22.4.3.8.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.1.4.2 Procedure

Expected Sequence 8.1 (GET INPUT, Text attribute - Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with left alignment.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.1.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/7, no alignment change will take place.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.1.2	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.1.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 22222"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.1.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.1.

27.22.4.3.8.2 GET INPUT (Support of Text Attribute - Center Alignment)

27.22.4.3.8.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.2.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.2.3 Test purpose

To verify that the Terminal displays the text formatted according to the center alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.2.4 Method of test

27.22.4.3.8.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.2.4.2 Procedure

Expected Sequence 8.2 (GET INPUT, Text attribute - Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.2.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with center alignment.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.2.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.2.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.2.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/7, no alignment change will take place.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.2.2	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	01	B4	

TERMINAL RESPONSE: GET INPUT 8.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.2.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 22222"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.2.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.2.

27.22.4.3.8.3 GET INPUT (Support of Text Attribute - Right Alignment)

27.22.4.3.8.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.3.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.3.3 Test purpose

To verify that the Terminal displays the text formatted according to the right alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.3.4 Method of test

27.22.4.3.8.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.3.4.2 Procedure

Expected Sequence 8.3 (GET INPUT, Text attribute - Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.3.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with right alignment.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.3.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.3.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.3.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/7, no alignment change will take place.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.3.2	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	02	B4	

TERMINAL RESPONSE: GET INPUT 8.3.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.3.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 22222"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.3.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.3.

27.22.4.3.8.4 GET INPUT (Support of Text Attribute - Large Font Size)

27.22.4.3.8.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.4.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.4.3 Test purpose

To verify that the Terminal displays the text formatted according to the large font size text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.4.4 Method of test

27.22.4.3.8.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.4.4.2 Procedure

Expected Sequence 8.4 (GET INPUT, Text attribute - Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.4.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with large font size.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.4.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.4.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted with normal font size.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.4.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.4.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.4.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
16	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with large font size.
17	USER → Terminal	Enter the input "12345" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.4.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.4.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.4.3	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
22	Terminal → USER	Display "Enter 33333"	Message shall be formatted with normal font size.
23	USER → Terminal	Enter the input "33333" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.4.3	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.4.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 12345"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	04	B4	

TERMINAL RESPONSE: GET INPUT 8.4.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.4.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 22222"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.4.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.4.3

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 33333"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.4.3

Logically:

Command details
Command number: 1
Command type: GET INPUT

Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.4.

27.22.4.3.8.5 GET INPUT (Support of Text Attribute - Small Font Size)

27.22.4.3.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.5.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.5.3 Test purpose

To verify that the Terminal displays the text formatted according to the small font size text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.5.4 Method of test

27.22.4.3.8.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.5.4.2 Procedure

Expected Sequence 8.5 (GET INPUT, Text attribute - Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.5.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with small font size.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.5.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.5.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.5.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted with normal font size.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.5.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.5.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.5.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
16	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with small font size.
17	USER → Terminal	Enter the input "12345" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.5.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.5.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.5.3	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
22	Terminal → USER	Display "Enter 33333"	Message shall be formatted with normal font size.
23	USER → Terminal	Enter the input "33333" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.5.3	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	08	B4	

TERMINAL RESPONSE: GET INPUT 8.5.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.5.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 22222"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.5.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.5.3

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 33333"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.5.3

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.5.

27.22.4.3.8.6 GET INPUT (Support of Text Attribute - Bold On)

27.22.4.3.8.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.6.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.6.3 Test purpose

To verify that the Terminal displays the text formatted according to the bold text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.6.4 Method of test

27.22.4.3.8.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.6.4.2 Procedure

Expected Sequence 8.6 (GET INPUT, Text attribute - Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.6.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with bold on.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.6.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.6.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.6.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted with bold off.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.6.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.6.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.6.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
16	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with bold on.
17	USER → Terminal	Enter the input "12345" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.6.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.6.3	
20	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
21	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.6.3	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
22	Terminal → USER	Display "Enter 33333"	Message shall be formatted with bold off.
23	USER → Terminal	Enter the input "33333" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.6.3	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.6.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	10	B4	

TERMINAL RESPONSE: GET INPUT 8.6.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.6.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 22222"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.6.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.6.3

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 33333"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.6.3

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.6.

27.22.4.3.8.7 GET INPUT (Support of Text Attribute - Italic On)

27.22.4.3.8.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.7.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.7.3 Test purpose

To verify that the Terminal displays the text formatted according to the italic text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.7.4 Method of test

27.22.4.3.8.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.7.4.2 Procedure

Expected Sequence 8.7 (GET INPUT, Text attribute - Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.7.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with italic on.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.7.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.7.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.7.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted with italic off.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.7.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.7.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.7.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
16	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with italic on.

Step	Direction	MESSAGE / Action	Comments
17	USER → Terminal	Enter the input "12345" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.7.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.7.2	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.7.3	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
22	Terminal → USER	Display "Enter 33333"	Message shall be formatted with italic off.
23	USER → Terminal	Enter the input "33333" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.7.3	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.7.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	20	B4	

TERMINAL RESPONSE: GET INPUT 8.7.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.7.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 22222"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Of
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.7.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.7.3

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 33333"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.7.3

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.7.

27.22.4.3.8.8 GET INPUT (Support of Text Attribute - Underline On)

27.22.4.3.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.8.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.8.3 Test purpose

To verify that the Terminal displays the text formatted according to the underline text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.8.4 Method of test

27.22.4.3.8.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.8.4.2 Procedure

Expected Sequence 8.8 (GET INPUT, Text attribute - Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.8.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with underline on.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.8.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.8.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.8.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.

Step	Direction	MESSAGE / Action	Comments
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted with underline off.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.8.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.8.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.8.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
16	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with underline on.
17	USER → Terminal	Enter the input "12345" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.8.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.8.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.8.3	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
22	Terminal → USER	Display "Enter 33333"	Message shall be formatted with underline off.
23	USER → Terminal	Enter the input "33333" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.8.3	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.8.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	40	B4	

TERMINAL RESPONSE: GET INPUT 8.8.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.8.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 22222"

Response length
- Minimum length: 5
- Maximum length: 5

Text Attribute
- Formatting position: 0
- Formatting length: 11
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.8.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.8.3

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 33333"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.8.3

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.8.

27.22.4.3.8.9 GET INPUT (Support of Text Attribute - Strikethrough On)

27.22.4.3.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.9.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.9.3 Test purpose

To verify that the Terminal displays the text formatted according to the strikethrough text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.9.4 Method of test

27.22.4.3.8.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.9.4.2 Procedure

Expected Sequence 8.9 (GET INPUT, Text attribute - Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.9.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with strikethrough on.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.9.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.9.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.9.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
10	Terminal → USER	Display "Enter 22222"	Message shall be formatted with strikethrough off.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.9.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.9.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.9.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
16	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with strikethrough on.
17	USER → Terminal	Enter the input "12345" and completion	
18	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.9.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.9.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.9.3	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
22	Terminal → USER	Display "Enter 33333"	Message shall be formatted with strikethrough off.
23	USER → Terminal	Enter the input "33333" and completion	
24	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.9.3	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.9.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 12345"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	80	B4	

TERMINAL RESPONSE: GET INPUT 8.9.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.9.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 22222"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.9.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

PROACTIVE COMMAND: GET INPUT 8.9.3

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 33333"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	33	33	33	33
	33	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.9.3

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "33333"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	33	33	33	33	33				

27.22.4.3.8.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.9.

27.22.4.3.8.10 GET INPUT (Support of Text Attribute - Foreground and Background Colour)

27.22.4.3.8.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.10.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2, 8.15.3 and 8.70.

27.22.4.3.8.10.3 Test purpose

To verify that the Terminal displays the text formatted according to the fore- and background colour text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.10.4 Method of test

27.22.4.3.8.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.3.8.10.4.2 Procedure

Expected Sequence 8.10 (GET INPUT, Text attribute - Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.10.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, text attribute.
4	Terminal → USER	Display "Enter 12345"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted according to foreground and background colour text attribute configuration.
5	USER → Terminal	Enter the input "12345" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.10.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 8.10.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 8.10.2	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no text attribute.
10	Terminal → USER	Display "Enter 22222"	Range of expected length is 5-5, Text string coding in unpacked format, Message shall be formatted with the Terminal's default foreground and background.
11	USER → Terminal	Enter the input "22222" and completion	
12	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 8.10.2	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 8.10.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter 12345"

Response length
Minimum length: 5
Maximum length: 5

Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	D0	04	00	0B	00	B4	

TERMINAL RESPONSE: GET INPUT 8.10.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

PROACTIVE COMMAND: GET INPUT 8.10.2

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Enter 22222"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	32	32	32	32
	32	91	02	05	05							

TERMINAL RESPONSE: GET INPUT 8.10.2

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, Terminal to echo text

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "22222"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	32	32	32	32	32				

27.22.4.3.8.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.10.

27.22.4.3.9 GET INPUT (UCS2 display in Chinese)

27.22.4.3.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.9.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally the Terminal shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.3.9.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.9.4 Method of test

27.22.4.3.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.9.4.2 Procedure

Expected Sequence 9.1 (GET INPUT, text string coding in UCS2 in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 9.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 9.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "你好"	Range of expected length is 5-5 Text string "Hello" in Chinese coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "HELLO" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 9.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 9.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: 16 bit data UCS2 alphabet format
- Text: "你好"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	14	81	03	01	23	01	82	02	81	82	8D
	05	08	4F	60	59	7D	91	02	05	05		

TERMINAL RESPONSE: GET INPUT 9.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

Expected Sequence 9.2 (GET INPUT, max length for the text string coding in UCS2 in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 9.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 9.2.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "你好"	Range of expected length is 5-5 Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → Terminal	Enter the input "HELLO" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 9.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 9.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: 16 bit data UCS2 alphabet format
Text: "你好你好你好你好你好你好你好你好你好你好你好你好你好你
好你好你好你
好你好你好你好你好你好你好你好你好你好你好你好你好你好你
好你好你好你 好你好"

Response length
Minimum length: 5
Maximum length: 5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82
	8D	81	8D	08	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 9.2.1

Logically:

Command details
Command number: 1
Command type: GET INPUT
Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Text string
Data coding scheme: unpacked, 8 bit data
Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 9.1 to 9.2.

27.22.4.3.10 GET INPUT (UCS2 entry in Chinese)

27.22.4.3.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.10.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally the Terminal shall support the UCS2 facility for the coding of the Chinese character, as defined in ISO/IEC 10646 [2].

27.22.4.3.10.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.10.4 Method of test

27.22.4.3.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.10.4.2 Procedure

Expected Sequence 10.1 (GET INPUT, character set from UCS2 alphabet in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 10.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 10.1.1	Character set, UCS2 alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter Hello"	Range of expected length is 2-2 Text string coding in unpacked format
5	USER → Terminal	Enter the input "你好" and completion	"Hello" in Chinese, coding in UCS2 format
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 10.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 10.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter Hello"

Response length
- Minimum length: 2
- Maximum length: 2

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	02	02							

TERMINAL RESPONSE: GET INPUT 10.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: UCS2
- Text: "你好"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	05	08	4F	60	59	7D					

Expected Sequence 10.2 (GET INPUT, character set from UCS2 alphabet in Chinese, Max length for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 10.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 10.2.1	Character set, UCS2 alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter Hello"	Range of expected length is no limit Text string coding in unpacked format.
5	USER → Terminal	Enter the input "你好" and completion	Input length 70 characters, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 10.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 10.2.1

Logically:

Command details

Command number:	1
Command type:	GET INPUT
Command qualifier:	character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities

Source device:	UICC
Destination device:	Terminal

Text String

Data coding scheme:	unpacked, 8 bit data
Text:	"Enter Hello"

Response length

Minimum length:	5
Maximum length:	No maximum length requirement

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

TERMINAL RESPONSE: GET INPUT 10.2.1

Logically:

Command details

Command number:	1
Command type:	GET INPUT
Command qualifier:	character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities

Source device:	Terminal
Destination device:	UICC

Result

General Result:	Command performed successfully
Data coding scheme:	UCS2
Text:	"你好" (70 chars)

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D
	4F	60	59	7D	4F	60	59	7D	4F	60	59	7D

27.22.4.3.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 10.1 to 10.2.

27.22.4.3.11 GET INPUT (UCS2 display in Katakana)

27.22.4.3.11.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.11.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally the Terminal shall support the UCS2 facility for the coding of the Katakana character, as defined in the following technical specifications: ISO/IEC 10646 [2].

27.22.4.3.11.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.11.4 Method of test

27.22.4.3.11.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.11.4.2 Procedure

Expected Sequence 11.1 (GET INPUT, text string coding in UCS2 in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 11.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 11.1.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "ル"	Range of expected length is 5-5 Text string character in Katakana coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "HELLO" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 11.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 11.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: 16 bit data UCS2 alphabet format
- Text: "ル"

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	12	81	03	01	23	01	82	02	81	82	8D
	03	08	30	EB	91	02	05	05				

TERMINAL RESPONSE: GET INPUT 11.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string

Data coding scheme:	unpacked, 8 bit data
Text:	"HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

Expected Sequence 11.2 (GET INPUT, max length for the text string coding in UCS2 in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 11.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 11.2.1	Digits only, SMS default alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル"	Range of expected length is 5-5 Text string length 70 characters, coding in 16 bits UCS2 alphabet format.
5	USER → Terminal	Enter the input "HELLO" and completion	
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 11.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 11.2.1

Logically:

Command details

Command number:	1
Command type:	GET INPUT
Command qualifier:	alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities

Source device:	UICC
Destination device:	Terminal

Text String

Data coding scheme:	16 bit data UCS2 alphabet format
Text:	"ルルルルルルルルルルルルルルルルルルルルルルルルルルル ルルルルルルルルルルルルルルルルルルルルルルルルルルルル ルルルルルルルルルルルルルルル"

Response length

Minimum length:	5
Maximum length:	5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82
	8D	81	8D	08	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 11.2.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: unpacked, 8 bit data
- Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.11.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 11.1 to 11.2.

27.22.4.3.12 GET INPUT (UCS2 entry in Katakana)

27.22.4.3.12.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.12.2 Conformance requirement

The Terminal shall support the GET INPUT command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.11, 8.15, 8.15.1, 8.15.2 and 8.15.3.

Additionally the Terminal shall support the UCS2 facility for the coding of the Katakana character, as defined in ISO/IEC 10646 [2].

27.22.4.3.12.3 Test purpose

To verify that the Terminal displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.12.4 Method of test

27.22.4.3.12.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.3.12.4.2 Procedure

Expected Sequence 12.1 (GET INPUT, character set from UCS2 alphabet in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 12.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 12.1.1	Character set, UCS2 alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter Hello"	Range of expected length is 2-2 Text string coding in unpacked format.
5	USER → Terminal	Enter the input "ルル" and completion	Characters in Katakana, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 12.1.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 12.1.1

Logically:

Command details
- Command number: 1
- Command type: GET INPUT
- Command qualifier: character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter Hello"

Response length
- Minimum length: 2
- Maximum length: 2

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	02	02							

TERMINAL RESPONSE: GET INPUT 12.1.1

Logically:

Command details

Command number:	1
Command type:	GET INPUT
Command qualifier:	character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities

Source device:	Terminal
Destination device:	UICC

Result

General Result:	Command performed successfully

Text string

Data coding scheme:	UCS2
Text:	"ルル"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	05	08	30	EB	30	EB					

Expected Sequence 12.2 (GET INPUT, character set from UCS2 alphabet in Katakana, Max length for the input, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET INPUT 12.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET INPUT 12.2.1	Character set, UCS2 alphabet, Terminal to echo text, packing not required, no help information available.
4	Terminal → USER	Display "Enter Hello"	Range of expected length is no limit Text string coding in unpacked format.
5	USER → Terminal	Enter the input "ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル ルルルルルルルルルルルルルル" and completion	Input length 70 characters, coding in UCS2 format.
6	Terminal → UICC	TERMINAL RESPONSE: GET INPUT 12.2.1	Command performed successfully.

PROACTIVE COMMAND: GET INPUT 12.2.1

Logically:

Command details

Command number:	1
Command type:	GET INPUT
Command qualifier:	character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities

Source device:	UICC
Destination device:	Terminal

Text String

Data coding scheme:	unpacked, 8 bit data
Text:	"Enter Hello"

Response length

Minimum length:	5
Maximum length:	No maximum length requirement

Coding:

BER-TLV:											
	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

TERMINAL RESPONSE: GET INPUT 12.2.1

Logically:

Command details

Command number:	1
Command type:	GET INPUT
Command qualifier:	character set, UCS2 alphabet, input in unpacked format, Terminal to echo text, no help information available

Device identities

Source device:	Terminal
Destination device:	UICC

Result

General Result:	Command performed successfully
Data coding scheme:	UCS2
Text:	"ルルルルルルルルルルルルルルルルルルルルルルルルルルル ルルルルルルルルルルルルルルルルルルルルルルルルルルルルルル
ル	ルルルルルルルルルルルル" (70 chars)

Coding:

BER-TLV:												
	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB
	30	EB	30	EB	30	EB	30	EB	30	EB	30	EB

27.22.4.3.12.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 12.1 to 12.2.

27.22.4.4 MORE TIME

27.22.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.4.2 Conformance requirement

The Terminal shall support the MORE TIME command as defined in:

- TS 102 223 [1], clauses 6.4.4, 6.6.4, 5.2, 8.6 and 8.7.

27.22.4.4.3 Test purpose

To verify that the Terminal shall send a TERMINAL RESPONSE (OK) to the UICC after the Terminal receives the MORE TIME proactive UICC command.

27.22.4.4.4 Method of test

27.22.4.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.4.4.2 Procedure

Expected Sequence 1.1 (MORE TIME)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: MORE TIME 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: MORE TIME 1.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: MORE TIME 1.1.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: MORE TIME 1.1.1

Logically:

Command details
- Command number: 1
- Command type: MORE TIME
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 1.1.1

Logically:

Command details
Command number: 1
Command type: MORE TIME
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00

27.22.4.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.4.5 PLAY TONE

27.22.4.5.1 PLAY TONE (Normal)

27.22.4.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.1.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16 and 8.8.

27.22.4.5.1.3 Test purpose

To verify that the Terminal plays an audio tone of a type and duration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal plays the requested audio tone through the earpiece whilst not in call and shall superimpose the tone on top of the downlink audio whilst in call.

To verify that the Terminal displays the text contained in the PLAY TONE proactive UICC command.

27.22.4.5.1.4 Method of test

27.22.4.5.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.1.4.2 Procedure

Expected Sequence 1.1 (PLAY TONE)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.1	
4	Terminal → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.2	
10	Terminal → USER	Display "Sub. Busy" Play a standard supervisory called subscriber busy tone for a duration of 5 s	
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.2	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.3	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.3	
16	Terminal → USER	Display "Congestion" Play a standard supervisory congestion tone for a duration of 5 s	
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.3	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.4	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.4	
22	Terminal → USER	Display "RP Ack" Play a standard supervisory radio path acknowledgement tone	
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.4	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
25	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.5	
26	Terminal → UICC	FETCH	
27	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.5	

Step	Direction	MESSAGE / Action	Comments
28	Terminal → USER	Display "No RP" Play a standard supervisory radio path not available / call dropped tone for a duration of 5 s	
29	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.5	Command performed successfully.
30	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.6	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.6	
34	Terminal → USER	Display "Spec Info" Play a standard supervisory error / special information tone for a duration of 5 s	
35	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.6	Command performed successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.7	
38	Terminal → UICC	FETCH	
39	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.7	
40	Terminal → USER	Display "Call Wait" Play a standard supervisory call waiting tone for a duration of 5 s	
41	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.7	Command performed successfully.
42	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
43	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.8	
44	Terminal → UICC	FETCH	
45	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.8	
46	Terminal → USER	Display "Ring Tone" Play a standard supervisory ringing tone for duration of 5 s	
47	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.8	Command performed successfully.
48	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
49	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.9	
50	Terminal → UICC	FETCH	
51	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.9	
52	Terminal → USER	Display "This command instructs the ME to play an audio tone. Upon receiving this command, the ME shall check if it is currently in, or in the process of setting up (SET-UP message sent to the network, see GSM"04.08"(8)), a speech call. - If the ME I" Play a general beep	

Step	Direction	MESSAGE / Action	Comments
53	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.9a or TERMINAL RESPONSE: PLAY TONE 1.1.9b	Command performed successfully. or Command beyond Terminal's capabilities.
54	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
55	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.10	
56	Terminal → UICC	FETCH	
57	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.10	
58	Terminal → USER	Display "Beep" Play a Terminal proprietary general beep	
59	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.10a Or TERMINAL RESPONSE: PLAY TONE 1.1.10b	Command performed successfully. or Command beyond Terminal's capabilities.
60	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
61	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.11	
62	Terminal → UICC	FETCH	
63	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.11	
64	Terminal → USER	Display "Positive" Play a Terminal proprietary positive acknowledgement tone	
65	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.11a or TERMINAL RESPONSE: PLAY TONE 1.1.11b	Command performed successfully. or Command beyond Terminal's capabilities.
66	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
67	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.12	
68	Terminal → UICC	FETCH	
69	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.12	
70	Terminal → USER	Display "Negative" Play a Terminal proprietary negative acknowledgement tone	
71	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.12a or TERMINAL RESPONSE: PLAY TONE 1.1.12b	Command performed successfully. or Command beyond Terminal's capabilities.
72	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
73	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.13	
74	Terminal → UICC	FETCH	
75	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.13	
76	Terminal → USER	Display "Quick" Play a Terminal proprietary general beep	

Step	Direction	MESSAGE / Action	Comments
77	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.13a or TERMINAL RESPONSE: PLAY TONE 1.1.13b	Command performed successfully. or Command beyond Terminal's capabilities.
78	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
79	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.14	
80	Terminal → UICC	FETCH	
81	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.14	
82	Terminal → USER	Display "<ABORT>" Play a Terminal Error / Special information tone for 1 minute until user aborts this command	
83	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.14	Proactive UICC session terminated by the user.
84	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
85	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.15	
86	Terminal → UICC	FETCH	
87	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.1.15	No alpha identifier, no tone tag, no duration tag.
88	Terminal → User	Terminal plays general beep, or if not supported any (defined by Terminal-manufacturer) other supported tone	Terminal uses default duration defined by Terminal-manufacturer.
89	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.15	Command performed successfully, Terminal uses general beep, or if not supported any (defined by Terminal-manufacturer) other supported tone, uses default duration defined by Terminal-manufacturer.
90	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 1.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Dial Tone"
- Tone: Standard supervisory tones: dial tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Sub. Busy"
- Tone: Standard supervisory tones: called subscriber busy

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	53	75	62	2E	20	42	75	73	79	8E	01
	02	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Congestion"
- Tone: Standard supervisory tones: congestion

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1C	81	03	01	20	00	82	02	81	03	85
	0A	43	6F	6E	67	65	73	74	69	6F	6E	8E
	01	03	84	02	01	05						

PROACTIVE COMMAND: PLAY TONE 1.1.4

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "RP Ack"
- Tone: Standard supervisory tones: radio path acknowledge

Duration
Time unit: Seconds
Time interval: 5

Coding:

BER-TLV:	D0	18	81	03	01	20	00	82	02	81	03	85
	06	52	50	20	41	63	6B	8E	01	04	84	02
	01	05										

PROACTIVE COMMAND: PLAY TONE 1.1.5

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha identifier: "No RP"
Tone: Standard supervisory tones: radio path not available

Duration
Time unit: Seconds
Time interval: 5

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	4E	6F	20	52	50	8E	01	05	84	02	01
	05											

PROACTIVE COMMAND: PLAY TONE 1.1.6

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha identifier: "Spec Info"
Tone: Standard supervisory tones: Error/ special information

Duration
Time unit: Seconds
Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	53	70	65	63	20	49	6E	66	6F	8E	01
	06	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.7

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Call Wait"
- Tone: Standard supervisory tones: call waiting tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	43	61	6C	6C	20	57	61	69	74	8E	01
	07	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.8

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Ring Tone"
- Tone: Standard supervisory tones: ringing tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	52	69	6E	67	20	54	6F	6E	65	8E	01
	08	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.9

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities

Source device:	UICC
Destination device:	Earpiece
Alpha identifier:	"This command instructs the ME to play an audio tone. Upon receiving this command, the ME shall check if it is currently in, or in the process of setting up (SET-UP message sent to the network, see GSM"04.08"(8)), a speech call. - If the ME I"

Coding:

BER-TLV:	D0	81	FD	81	03	01	20	00	82	02	81	03
	85	81	F1	54	68	69	73	20	63	6F	6D	6D
	61	6E	64	20	69	6E	73	74	72	75	63	74
	73	20	74	68	65	20	4D	45	20	74	6F	20
	70	6C	61	79	20	61	6E	20	61	75	64	69
	6F	20	74	6F	6E	65	2E	20	55	70	6F	6E
	20	72	65	63	65	69	76	69	6E	67	20	74
	68	69	73	20	63	6F	6D	6D	61	6E	64	2C
	20	74	68	65	20	4D	45	20	73	68	61	6C
	6C	20	63	68	65	63	6B	20	69	66	20	69
	74	20	69	73	20	63	75	72	72	65	6E	74
	6C	79	20	69	6E	2C	20	6F	72	20	69	6E
	20	74	68	65	20	70	72	6F	63	65	73	73
	20	6F	66	20	73	65	74	74	69	6E	67	20
	75	70	20	28	53	45	54	2D	55	50	20	6D
	65	73	73	61	67	65	20	73	65	6E	74	20
	74	6F	20	74	68	65	20	6E	65	74	77	6F
	72	6B	2C	20	73	65	65	20	47	53	4D	22
	30	34	2E	30	38	22	28	38	29	29	2C	20
	61	20	73	70	65	65	63	68	20	63	61	6C
	6C	2E	20	2D	20	49	66	20	74	68	65	20
	4D	45	20	49								

PROACTIVE COMMAND: PLAY TONE 1.1.10

Logically:

Command details

Command number:	1
Command type:	PLAY TONE
Command qualifier:	"00"

Device identities

Source device:	UICC
Destination device:	Earpiece
Alpha identifier:	"Beep"
Tone:	Terminal proprietary tones: general beep

Duration

Time unit:	Seconds
Time interval:	1

Coding:

BER-TLV:	D0	16	81	03	01	20	00	82	02	81	03	85
	04	42	65	65	70	8E	01	10	84	02	01	01

PROACTIVE COMMAND: PLAY TONE 1.1.11

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Positive"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	50	6F	73	69	74	69	76	65	8E	01	11
	84	02	01	01								

PROACTIVE COMMAND: PLAY TONE 1.1.12

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Negative"
- Tone: Terminal proprietary tones: negative acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	4E	65	67	61	74	69	76	65	8E	01	12
	84	02	01	01								

PROACTIVE COMMAND: PLAY TONE 1.1.13

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Quick"
- Tone: Terminal proprietary tones: general beep

Duration
Time unit: Tenths of seconds
Time interval: 2

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	51	75	69	63	6B	8E	01	10	84	02	02
	02											

PROACTIVE COMMAND: PLAY TONE 1.1.14

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha identifier: "<ABORT>"
Tone: Standard supervisory tones: Error / Special information

Duration
Time unit: Minutes
Time interval: 1

Coding:

BER-TLV:	D0	19	81	03	01	20	00	82	02	81	03	85
	07	3C	41	42	4F	52	54	3E	8E	01	06	84
	02	00	01									

PROACTIVE COMMAND: PLAY TONE 1.1.15

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece

Coding:

BER-TLV:	D0	09	81	03	01	20	00	82	02	81	03	

TERMINAL RESPONSE: PLAY TONE 1.1.1... 1.1.8, 1.1.15

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: PLAY TONE 1.1.9a... 1.1.13a

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: PLAY TONE 1.1.9b..1.1.13b

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command beyond Terminal's capabilities

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	30

TERMINAL RESPONSE: PLAY TONE 1.1.14

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result

General Result: Proactive UICC session terminated by user

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	10

27.22.4.5.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.4.5.2 PLAY TONE (UCS2 display in Cyrillic)

27.22.4.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.2.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.2, 8.16 and 8.8.

Additionally the Terminal shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [2].

27.22.4.5.2.3 Test purpose

To verify that the Terminal displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal plays the requested audio tone through the earpiece.

27.22.4.5.2.4 Method of test

27.22.4.5.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.2.4.2 Procedure

Expected Sequence 2.1 (PLAY TONE, character set from UCS2 alphabet in Cyrillic, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 2.1.1	UCS2 alphabet.
4	Terminal → USER	Display "ЗДРАВСТВУЙТЕ" and play a Terminal proprietary positive acknowledgement tone	"Hello" in Russian, 0x80 coding of UCS2 format.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 2.1.1	Command performed successfully.

Step	Direction	MESSAGE / Action	Comments
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 2.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 2.1.2	UCS2 alphabet.
10	Terminal → USER	Display "ЗДРАВСТВУЙТЕ" and play a Terminal proprietary positive acknowledgement tone	"Hello" in Russian, 0x81 coding of UCS2 format.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 2.1.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 2.1.3	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 2.1.3	UCS2 alphabet.
16	Terminal → USER	Display "ЗДРАВСТВУЙТЕ" and play a Terminal proprietary positive acknowledgement tone	"Hello" in Russian, 0x82 coding of UCS2 format.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 2.1.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 2.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "ЗДРАВСТВУЙТЕ"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	2B	81	03	01	20	00	82	02	81	03	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8E	01	11	84	02	01	01			

PROACTIVE COMMAND: PLAY TONE 2.1.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha Identifier "ЗДРАВСТВУЙТЕ"
Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
Time unit: Seconds
Time interval: 1

Coding:

BER-TLV:	D0	21	81	03	01	20	00	82	02	81	03	85
	0F	81	0C	08	97	94	A0	90	92	A1	A2	92
	A3	99	A2	95	8E	01	11	84	02	01	01	

PROACTIVE COMMAND: PLAY TONE 2.1.3

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha Identifier "ЗДРАВСТВУЙТЕ"
Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
Time unit: Seconds
Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	82	0C	04	10	87	84	90	80	82	91	92
	82	93	89	92	85	8E	01	11	84	02	01	01

TERMINAL RESPONSE: PLAY TONE 2.1.1

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

27.22.4.5.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.5.3 PLAY TONE (display of Icon)

27.22.4.5.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.3.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8 and 8.31.

27.22.4.5.3.3 Test purpose

To verify that the Terminal plays an audio tone of a type and duration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal plays the requested audio tone through the earpiece.

To verify that the Terminal displays the icon contained in the PLAY TONE proactive UICC command.

27.22.4.5.3.4 Method of test

27.22.4.5.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.3.4.2 Procedure

Expected Sequence 3.1A (PLAY TONE, Basic icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.1.1	BASIC-ICON self-explanatory.
4	Terminal → USER	Display the basic icon without the alpha identifier Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.1.1A	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "<BASIC-ICON>"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Icon Identifier
- Icon qualifier: self-explanatory
- Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	0C	3C	42	41	53	49	43	2D	49	43	4F	4E
	3E	8E	01	11	84	02	01	01	1E	02	00	01

TERMINAL RESPONSE: PLAY TONE 3.1.1A

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.1B (PLAY TONE, Basic icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.1.1	BASIC-ICON self-explanatory.
4	Terminal → USER	Display "<BASIC-ICON>" without the icon Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.1.1B	Command performed successfully, but requested icon could not be displayed.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.1.1B

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

Expected Sequence 3.2A (PLAY TONE, Basic icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.2.1	BASIC-ICON non self-explanatory.
4	Terminal → USER	Display "<BASIC-ICON>" and the basic icon Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.2.1A	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.2.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier '<BASIC-ICON>'
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Icon Identifier
- Icon qualifier: non self-explanatory
- Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	0C	3C	42	41	53	49	43	2D	49	43	4F	4E
	3E	8E	01	11	84	02	01	01	1E	02	01	01

TERMINAL RESPONSE: PLAY TONE 3.2.1A

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.2B (PLAY TONE, Basic icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.2.1	BASIC-ICON non self-explanatory.
4	Terminal → USER	Display "<BASIC-ICON>" without the basic icon Play a Terminal proprietary positive acknowledgement tone	

Step	Direction	MESSAGE / Action	Comments
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.2.1B	Command performed successfully, but requested icon could not be displayed.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.2.1B

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

Expected Sequence 3.3A (PLAY TONE, Colour icon, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.3.1	COLOUR-ICON self-explanatory.
4	Terminal → USER	Display the COLOUR-ICON without the alpha identifier Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.3.1A	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.3.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "<COLOUR-ICON>"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Icon Identifier
Icon qualifier: self-explanatory
Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	23	81	03	01	20	00	82	02	81	03	85
	0D	3C	43	4F	4C	4F	55	52	2D	49	43	4F
	4E	3E	8E	01	11	84	02	01	01	1E	02	00
	02											

TERMINAL RESPONSE: PLAY TONE 3.3.1A

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.3B (PLAY TONE, Colour icon, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.3.1	COLOUR-ICON self-explanatory.
4	Terminal → USER	Display "<COLOUR-ICON>" without the colour icon Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.3.1B	Command performed successfully, but requested icon could not be displayed.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.3.1B

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result

General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

Expected Sequence 3.4A (PLAY TONE, Colour icon, non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.4.1	COLOUR-ICON non self-explanatory.
4	Terminal → USER	Display "<COLOUR-ICON>" and the colour icon Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.4.1A	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 3.4.1

Logically:

Command details

Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Earpiece
Alpha Identifier "<COLOUR-ICON>"
Tone: Terminal proprietary tones: positive acknowledgement tone

Duration

Time unit: Seconds
Time interval: 1

Icon Identifier

Icon qualifier: not self-explanatory
Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	23	81	03	01	20	00	82	02	81	03	85
	0D	3C	43	4F	4C	4F	55	52	2D	49	43	4F
	4E	3E	8E	01	11	84	02	01	01	1E	02	01
	02											

TERMINAL RESPONSE: PLAY TONE 3.4.1A

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 3.4B (PLAY TONE, Colour icon, non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 3.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 3.4.1	COLOUR-ICON non self-explanatory.
4	Terminal → USER	Display "<COLOUR-ICON>" without the colour icon Play a Terminal proprietary positive acknowledgement tone	
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 3.4.1B	Command performed successfully, but requested icon could not be displayed.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: PLAY TONE 3.4.1B

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	04

27.22.4.5.3.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 3.1A to 3.4B.

27.22.4.5.4 PLAY TONE (Support of Text Attribute)

27.22.4.5.4.1 PLAY TONE (Support of Text Attribute - Left Alignment)

27.22.4.5.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.1.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.1.3 Test purpose

To verify that the Terminal displays the text formatted according to the left alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.1.4 Method of test

27.22.4.5.4.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.1.4.2 Procedure

Expected Sequence 4.1 (PLAY TONE, Text Attribute - Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.1.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with left alignment.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.1.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.1.2	

Step	Direction	MESSAGE / Action	Comments
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/8, no alignment change will take place.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.1.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

TERMINAL RESPONSE: PLAY TONE 4.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.1.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.1.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.1.

27.22.4.5.4.2 PLAY TONE (Support of Text Attribute - Center Alignment)

27.22.4.5.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.2.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.2.3 Test purpose

To verify that the Terminal displays the text formatted according to the center alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.2.4 Method of test

27.22.4.5.4.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.2.4.2 Procedure

Expected Sequence 4.2 (PLAY TONE, Text Attribute - Centre Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.2.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with center alignment.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.2.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.2.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.2.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/8, no alignment change will take place.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.2.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.2.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	01	B4						

TERMINAL RESPONSE: PLAY TONE 4.2.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.2.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.2.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.2.

27.22.4.5.4.3 PLAY TONE (Support of Text Attribute - Right Alignment)

27.22.4.5.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.3.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.3.3 Test purpose

To verify that the Terminal displays the text formatted according to the right alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.3.4 Method of test

27.22.4.5.4.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.3.4.2 Procedure

Expected Sequence 4.3 (PLAY TONE, Text Attribute - Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.3.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with right alignment.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.3.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.3.2	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.3.2	
4	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/8, no alignment change will take place.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.3.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.3.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	02	B4						

TERMINAL RESPONSE: PLAY TONE 4.3.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.3.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities

Source device:	UICC
Destination device:	Earpiece
Alpha Identifier:	"Text Attribute 2"
Tone:	Terminal proprietary tones: positive acknowledgement tone

Duration

Time unit:	Seconds
Time interval:	1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.3.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.3.

27.22.4.5.4.4 PLAY TONE (Support of Text Attribute - Large Font Size)

27.22.4.5.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.4.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.4.3 Test purpose

To verify that the Terminal displays the text formatted according to the large font size text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.4.4 Method of test

27.22.4.5.4.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.4.4.2 Procedure

Expected Sequence 4.4 (PLAY TONE, Text Attribute - Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.4.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with large font size.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.4.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with normal font size.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.4.1	
16	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with large font size.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.4.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.4.3	
22	Terminal → USER	Display 'Text Attribute 3' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with normal font size.
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.4.1	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.4.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	04	B4						

TERMINAL RESPONSE: PLAY TONE 4.4.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.4.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.4.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 3"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.4.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.4.

27.22.4.5.4.5 PLAY TONE (Support of Text Attribute - Small Font Size)

27.22.4.5.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.5.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.5.3 Test purpose

To verify that the Terminal displays the text formatted according to the small font size text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.5.4 Method of test

27.22.4.5.4.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.5.4.2 Procedure

Expected Sequence 4.5 (PLAY TONE, Text Attribute - Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.5.1	
4	Terminal → USER	Display "Text Attribute 1" Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with small font size.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.5.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with normal font size.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.1	

Step	Direction	MESSAGE / Action	Comments
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.5.1	
16	Terminal → USER	Display "Text Attribute 1" Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with small font size.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.5.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.5.3	
22	Terminal → USER	Display 'Text Attribute 3' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with normal font size.
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.5.1	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.5.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	08	B4						

TERMINAL RESPONSE: PLAY TONE 4.5.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.5.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.5.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities

Source device:	UICC
Destination device:	Earpiece
Alpha Identifier	"Text Attribute 3"
Tone:	Terminal proprietary tones: positive acknowledgement tone

Duration

Time unit:	Seconds
Time interval:	1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.5.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.5.

27.22.4.5.4.6 PLAY TONE (Support of Text Attribute - Bold On)

27.22.4.5.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.6.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.6.3 Test purpose

To verify that the Terminal displays the text formatted according to the bold text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.6.4 Method of test

27.22.4.5.4.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.6.4.2 Procedure

Expected Sequence 4.6 (PLAY TONE, Text Attribute - Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.6.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with bold on.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.6.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with bold off.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.6.1	
16	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with bold on.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.6.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.6.3	
22	Terminal → USER	Display 'Text Attribute 3' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with bold off.
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.6.1	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.6.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	0E	10	B4						

TERMINAL RESPONSE: PLAY TONE 4.6.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.6.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.6.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 3"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.6.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.6.

27.22.4.5.4.7 PLAY TONE (Support of Text Attribute - Italic On)

27.22.4.5.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.7.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.7.3 Test purpose

To verify that the Terminal displays the text formatted according to the italic text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.7.4 Method of test

27.22.4.5.4.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.7.4.2 Procedure

Expected Sequence 4.7 (PLAY TONE, Text Attribute - Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.7.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with italic on.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.7.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with italic off.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.1	

Step	Direction	MESSAGE / Action	Comments
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.7.1	
16	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with italic on.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.7.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.7.3	
22	Terminal → USER	Display 'Text Attribute 3' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with italic off.
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.7.1	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.7.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 14
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	0E	20	B4						

TERMINAL RESPONSE: PLAY TONE 4.7.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.7.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.7.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities

Source device:	UICC
Destination device:	Earpiece
Alpha Identifier	"Text Attribute 3"
Tone:	Terminal proprietary tones: positive acknowledgement tone

Duration

Time unit:	Seconds
Time interval:	1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.7.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.7.

27.22.4.5.4.8 PLAY TONE (Support of Text Attribute - Underline On)

27.22.4.5.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.8.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.8.3 Test purpose

To verify that the Terminal displays the text formatted according to the underline text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.8.4 Method of test

27.22.4.5.4.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.8.4.2 Procedure

Expected Sequence 4.8 (PLAY TONE, Text Attribute - Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.8.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with underline on.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.8.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with underline off.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.8.1	
16	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with underline on.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.8.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.8.3	
22	Terminal → USER	Display 'Text Attribute 3' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with underline off.
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.8.1	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.8.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	40	B4						

TERMINAL RESPONSE: PLAY TONE 4.8.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.8.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.8.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 3"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.8.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.8.

27.22.4.5.4.9 PLAY TONE (Support of Text Attribute - Strikethrough On)

27.22.4.5.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.9.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.9.3 Test purpose

To verify that the Terminal displays the text formatted according to the strikethrough text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.9.4 Method of test

27.22.4.5.4.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.9.4.2 Procedure

Expected Sequence 4.9 (PLAY TONE, Text Attribute - Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.9.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with strikethrough on.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.9.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with strikethrough off.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.9.1	
16	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with strikethrough on.

Step	Direction	MESSAGE / Action	Comments
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.9.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.9.3	
22	Terminal → USER	Display 'Text Attribute 3' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with strikethrough off.
23	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.9.1	Command performed successfully.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.9.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	80	B4						

TERMINAL RESPONSE: PLAY TONE 4.9.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.9.2

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha Identifier "Text Attribute 2"
Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
Time unit: Seconds
Time interval: 1

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

PROACTIVE COMMAND: PLAY TONE 4.9.3

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Earpiece
Alpha Identifier "Text Attribute 3"
Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
Time unit: Seconds
Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8E	01	11	84	02	01	01

27.22.4.5.4.9.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.9.

27.22.4.5.4.10 PLAY TONE (Support of Text Attribute - Foreground and Background Colour)

27.22.4.5.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.10.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.5, 6.6.5, 5.2, 8.6, 8.7, 8.2, 8.16, 8.8, 8.31 and 8.70.

27.22.4.5.4.10.3 Test purpose

To verify that the Terminal displays the text formatted according to the foreground and background colour text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.10.4 Method of test

27.22.4.5.4.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.4.10.4.2 Procedure

Expected Sequence 4.10 (PLAY TONE, Text Attribute - Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.10.1	
4	Terminal → USER	Display 'Text Attribute 1' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted according to the foreground and background colour text attribute configuration.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.10.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 4.10.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 4.10.2	
10	Terminal → USER	Display 'Text Attribute 2' Play a Terminal proprietary positive acknowledgement tone	Message shall be formatted with the Terminal's default foreground and background colour.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 4.10.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 4.10.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "Text Attribute 1"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	28	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8E	01	11	84	02	01	01
	D0	04	00	10	00	B4						

TERMINAL RESPONSE: PLAY TONE 4.10.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 4.10.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier: "Text Attribute 2"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	22	81	03	01	20	00	82	02	81	03	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8E	01	11	84	02	01	01

27.22.4.5.4.10.5 Test Requirement

The Terminal shall operate in the manner defined in expected sequences 4.10.

27.22.4.5.5 PLAY TONE (UCS2 display in Chinese)

27.22.4.5.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.5.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.2, 8.16 and 8.8.

Additionally the Terminal shall support the UCS2 facility for the coding of the Chinese character, as defined in ISO/IEC 10646 [2].

27.22.4.5.5.3 Test purpose

To verify that the Terminal displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal plays the requested audio tone through the earpiece.

27.22.4.5.5.4 Method of test

27.22.4.5.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.5.4.2 Procedure

Expected Sequence 5.1 (PLAY TONE, character set from UCS2 alphabet in Chinese, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 5.1.1	UCS2 alphabet.
4	Terminal → USER	Display "中一" and play a Terminal proprietary positive acknowledgement tone	'Middle 1" in Chinese, 0x80 coding of UCS2 format.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 5.1.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 5.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 5.1.2	UCS2 alphabet.
10	Terminal → USER	Display "中一" and play a Terminal proprietary positive acknowledgement tone	'Middle 1" in Chinese, 0x81 coding of UCS2 format.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 5.1.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 5.1.3	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 5.1.3	UCS2 alphabet.
16	Terminal → USER	Display "中一" and play a Terminal proprietary positive acknowledgement tone	'Middle 1" in Chinese, 0x82 coding of UCS2 format.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 5.1.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 5.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "中一"
- Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	80	4E	2D	4E	00	8E	01	11	84	02	01
	01											

PROACTIVE COMMAND: PLAY TONE 5.1.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece

Alpha Identifier "中—"

Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	81	02	9C	AD	80	8E	01	11	84	02	01
	01											

PROACTIVE COMMAND: PLAY TONE 5.1.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece

Alpha Identifier "中—"

Tone: Terminal proprietary tones: positive acknowledgement tone

Duration
- Time unit: Seconds
- Time interval: 1

Coding:

BER-TLV:	D0	18	81	03	01	20	00	82	02	81	03	85
	06	82	02	4E	00	AD	80	8E	01	11	84	02
	01	01										

TERMINAL RESPONSE: PLAY TONE 5.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

27.22.4.5.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 5.1.

27.22.4.5.6 PLAY TONE (UCS2 display in Katakana)

27.22.4.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.6.2 Conformance requirement

The Terminal shall support the PLAY TONE command as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.3, 6.6.3, 6.8, 6.11, 8.6, 8.7, 8.2, 8.16 and 8.8.

Additionally the Terminal shall support the UCS2 facility for the coding of the Katakana character, as defined in ISO/IEC 10646 [2].

27.22.4.5.6.3 Test purpose

To verify that the Terminal displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal plays the requested audio tone through the earpiece.

27.22.4.5.6.4 Method of test

27.22.4.5.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.5.6.4.2 Procedure

Expected Sequence 6.1 (PLAY TONE, with UCS2 in Katakana, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 6.1.1	UCS2 alphabet.
4	Terminal → USER	Display "80ルル0" Play a Terminal standard supervisory dial tone for 5 seconds	Characters in Katakana, 0x80 coding of UCS2 format.
5	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 6.1.1	Command performed successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 6.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 6.1.2	
10	Terminal → USER	Display "81ルル1" Play a Terminal standard supervisory dial tone for 5 seconds	Characters in Katakana, 0x81 coding of UCS2 format.
11	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 6.1.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 6.1.3	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 6.1.3	
16	Terminal → USER	Display "82ルル2" Play a Terminal standard supervisory dial tone for 5 seconds	Characters in Katakana, 0x82 coding of UCS2 format.
17	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 6.1.1	Command performed successfully.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: PLAY TONE 6.1.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha Identifier "80ルル0"
- Tone: Terminal proprietary tones: Standard supervisory tones: Dial tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	80	00	38	00	30	30	EB	00	30	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 6.1.2

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece

Alpha Identifier "81ルl"

Tone: Terminal proprietary tones: Standard supervisory tones: Dial tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	19	81	03	01	20	00	82	02	81	03	85
	07	81	04	61	38	31	EB	31	8E	01	01	84
	02	01	05									

PROACTIVE COMMAND: PLAY TONE 6.1.3

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece

Alpha Identifier "82ルl"

Tone: Terminal proprietary tones: Standard supervisory tones: Dial tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	82	04	30	A0	38	32	CB	32	8E	01	01
	84	02	01	05								

TERMINAL RESPONSE: PLAY TONE 6.1.1

Logically:

Command details
Command number: 1
Command type: PLAY TONE
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

27.22.4.5.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.1.

27.22.4.6 POLL INTERVAL

27.22.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.6.2 Conformance requirement

The Terminal shall support the POLL INTERVAL command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.6, 6.6.6, 5.2, 8.6, 8.7 and 8.8.

27.22.4.6.3 Test purpose

To verify that the Terminal shall send a TERMINAL RESPONSE (OK) to the UICC after the Terminal receives the POLL INTERVAL proactive UICC command.

To verify that the Terminal gives a valid response to the polling interval requested by the UICC.

To verify that the Terminal sends STATUS commands to the UICC at an interval no longer than the interval negotiated by the UICC.

27.22.4.6.4 Method of test

27.22.4.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.6.4.2 Procedure

Expected Sequence 1.1 (POLL INTERVAL, Seconds)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	Duration: 20 seconds.
4	Terminal → UICC	TERMINAL RESPONSE: POLL INTERVAL 1.1.1	Command performed successfully, duration depends on the Terminal's capabilities.
5	Terminal → UICC	Terminal polls in intervals as stated in the duration TLV of TERMINAL RESPONSE: POLL INTERVAL 1.1.1	

PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

Command details
- Command number: 1
- Command type: POLL INTERVAL
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Duration
- Time unit: Seconds
- Time interval: 20

Coding:

BER-TLV:	D0	0D	81	03	01	03	00	82	02	81	82	84
	02	01	14									

TERMINAL RESPONSE: POLL INTERVAL 1.1.1

Logically:

Command details
- Command number: 1
- Command type: POLL INTERVAL
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Duration
- Time unit: Seconds
- Time interval: 20

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	01	14								

NOTE: If the requested poll interval is not supported by the Terminal, the Terminal is allowed to use a different one as stated in TS 102 223 [1], clause 6.4.6.

27.22.4.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.4.7 REFRESH

27.22.4.7.1 REFRESH (normal)

27.22.4.7.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.7.1.2 Conformance requirement

The Terminal shall support the REFRESH command as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.7, 6.6.13, 5.2, 8.6, 8.7 and 8.18.

27.22.4.7.1.3 Test purpose

To verify that the Terminal performs the UICC initialization and / or re-reads the contents and structure of the EFs on the UICC that have been changed and / or restarts the card session by resetting the Terminal, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.7.1.4 Method of test

27.22.4.7.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.7.1.4.2 Procedure

Expected Sequence 1.1 (REFRESH, NAA Initialization and Full File Change Notification)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.2 (REFRESH, File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ Terminal	PROACTIVE COMMAND PENDING: REFRESH 1.2.1	To inform the Terminal that there is a change in ICCID value.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: REFRESH 1.2.1	
4	UICC	Update EF ICCID	New EF ICCID value: 98010000000012345678.
5	Terminal → UICC	TERMINAL RESPONSE: REFRESH 1.2.1A Or TERMINAL RESPONSE: REFRESH 1.2.1B	Additional EFs read.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.2.1

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: File Change Notification

Device identities
Source device: UICC
Destination device: Terminal

File List
Number of files: 1
File: 3F002FE2

Coding:

BER-TLV:	D0	10	81	03	01	01	01	82	02	81	82	92
	05	01	3F	00	2F	E2						

TERMINAL RESPONSE: REFRESH 1.2.1A

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: File Change Notification

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	01	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.2.1B

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: File Change Notification

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	01	82	02	82	81	83	01	03

Expected Sequence 1.3 (REFRESH, NAA Initialization and File Change Notification)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.4 (REFRESH, NAA Initialization)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.5 (REFRESH, UICC Reset)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ Terminal	PROACTIVE COMMAND PENDING: REFRESH 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: REFRESH 1.5.1	
4	Terminal	Terminal resets the UICC and perform NAA initialization if any	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.5.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: UICC Reset

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	01	04	82	02	81	82	

Expected Sequence 1.6 (REFRESH, NAA Application Reset)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.7 (REFRESH, NAA Session Reset)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.7.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.7.

27.22.4.8 SET UP MENU and ENVELOPE MENU SELECTION

27.22.4.8.1 SET UP MENU (normal) and ENVELOPE MENU SELECTION

27.22.4.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.1.2 Conformance requirement

The Terminal shall support the SET UP MENU command as defined in:

- TS 102 223 [1], clauses 5, 6.4.8, 6.6.7, 6.8, 6.11, 8.6, 8.7, 8.2, 8.9 and 9.4.

The Terminal shall support MENU SELECTION as defined in:

- TS 102 223 [1], clauses 4.4, 5.2, 6.4.8, 6.9, 7.2, 8.7 and 8.10.

27.22.4.8.1.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the Terminal removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the Terminal informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.1.4 Method of test

27.22.4.8.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.1.4.2 Procedure

Expected Sequence 1.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 1.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 1.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	
9	USER → Terminal	Select the "Item 2" Menu entry	

Step	Direction	MESSAGE / Action	Comments
10	Terminal → UICC	Send the ENVELOPE 1.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.2	Second Set Up Menu, REPLACE Old Menu.
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 1.1.2	
14	Terminal → USER	Integrate the new menu header of "Toolkit Menu" into its menu system and have the menu items of "One" and "Two" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 1.1.2	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
18	Terminal → USER	Display "One", "Two"	
19	USER → Terminal	Select the "Two" menu entry	
20	Terminal → UICC	Send the ENVELOPE 1.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.3 with SW1 / SW2 of '91 0F'.	Third Set Up Menu, REMOVE Toolkit Menu.
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 1.1.3	
24	Terminal → USER	Remove the menu "Toolkit Menu" from its menu system.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 1.1.3	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Item

Identifier of item: 4
Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3B	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34											

PROACTIVE COMMAND: SET UP MENU 1.1.2

Logically:

Command details

Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Menu"

Item

Identifier of item: "11"
Text string of item: "One"

Item

Identifier of item: "12"
Text string of item: "Two"

Coding:

BER-TLV:	D0	23	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	04	11	4F	6E	65	8F	04	12	54	77
	6F											

PROACTIVE COMMAND: SET UP MENU 1.1.3

Logically:

Command details

Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Terminal
Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 1.1.1, 1.1.2 and 1.1.3

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "no help information available"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 1.1.1: MENU SELECTION

Logically:

Menu selection
- Device identities
- Source device: Keypad
- Destination device: UICC
- Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 1.1.2: MENU SELECTION

Logically:

Menu selection
- Device identities
- Source device: Keypad
- Destination device: UICC
- Item identifier 12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

Expected Sequence 1.2 (SET UP MENU, Large Menu with many items or with large items or with Large Alpha Identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.1	First Large Menu with many items, Fetch of FF bytes.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 1.2.1	
4	Terminal → USER	Integrate the new menu header of "LargeMenu1" into its menu system and have the menu items of "Zero", "One", "Two", Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 1.2.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit "LargeMenu1"	
8	Terminal → USER	Display "Zero", "One", "Two" … "pico"	
9	USER → Terminal	Select the "Orange" menu entry	
10	Terminal → UICC	Send the ENVELOPE 1.2.1: MENU SELECTION (Identifier of item: 0x3D)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.2	Second Large Menu with large items, Fetch of F6 bytes.
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 1.2.2	
14	Terminal → USER	Integrate the new menu header of "LargeMenu2" into its menu system and have the menu items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 1.2.2	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "LargeMenu2"	
18	Terminal → USER	Display "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls", "7 CLI Presentation"	
19	USER → Terminal	Select the "5 Barring Of All Outgoing Calls" menu entry	

Step	Direction	MESSAGE / Action	Comments
20	Terminal → UICC	Send the ENVELOPE 1.2.2: MENU SELECTION (Identifier of item: 0xFB)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.3	Third Large Menu with a Large Alpha Identifier and only one Short Item, Fetch of FF bytes.
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 1.2.3	
24	Terminal → USER	Integrate the new menu header of "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh" into it's menu system and have a menu item of "Y" under this header".	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 1.2.3	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh".	
28	Terminal → USER	Display "Y"	
29	USER → Terminal	Select the item "Y"	
30	Terminal → UICC	Send the ENVELOPE 1.2.3: MENU SELECTION (Identifier of item: 1)	

PROACTIVE COMMAND: SET UP MENU 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha Identifier: "LargeMenu1"

Item
- Identifier of item: "50"
- Text string of item: "Zero"

Item
- Identifier of item: "4F"
- Text string of item: "One"

Item
- Identifier of item: "4E"
- Text string of item: "Two"

Item
Identifier of item: "4D"
Text string of item: "Three"
Item
Identifier of item: "4C"
Text string of item: "Four"
Item
Identifier of item: "4B"
Text string of item: "Five"
Item
Identifier of item: "4A"
Text string of item: "Six"
Item
Identifier of item: "49"
Text string of item: "Seven"
Item
Identifier of item: "48"
Text string of item: "Eight"
Item
Identifier of item: "47"
Text string of item: "Nine"
Item
Identifier of item: "46"
Text string of item: "Alpha"
Item
Identifier of item: "45"
Text string of item: "Bravo"
Item
Identifier of item: "44"
Text string of item: "Charlie"
Item
Identifier of item: "43"
Text string of item: "Delta"
Item
Identifier of item: "42"
Text string of item: "Echo"
Item
Identifier of item: "41"
Text string of item: "Fox-trot"
Item
Identifier of item: "40"
Text string of item: "Black"
Item
Identifier of item: "3F"
Text string of item: "Brown"
Item
Identifier of item: "3E"
Text string of item: "Red"
Item
Identifier of item: "3D"
Text string of item: "Orange"
Item
Identifier of item: "3C"
Text string of item: "Yellow"
Item
Identifier of item: "3B"
Text string of item: "Green"
Item
Identifier of item: "3A"
Text string of item: "Blue"

Item
Identifier of item: "39"
Text string of item: "Violet"
Item
Identifier of item: "38"
Text string of item: "Grey"
Item
Identifier of item: "37"
Text string of item: "White"
Item
Identifier of item: "36"
Text string of item: "milli"
Item
Identifier of item: "35"
Text string of item: "micro"
Item
Identifier of item: "34"
Text string of item: "nano"
Item
Identifier of item: "33"
Text string of item: "pico"

Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

PROACTIVE COMMAND: SET UP MENU 1.2.2

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha Identifier: "LargeMenu2"

Item
Identifier of item: "FF"
Text string of item: "1 Call Forward Unconditional"
Item
Identifier of item: "FE"
Text string of item: "2 Call Forward On User Busy"
Item
Identifier of item: "FD"
Text string of item: "3 Call Forward On No Reply"
Item
Identifier of item: "FC"
Text string of item: "4 Call Forward On User Not Reachable"
Item
Identifier of item: "FB"
Text string of item: "5 Barring Of All Outgoing Calls"
Item
Identifier of item: "FA"
Text string of item: "6 Barring Of All Outgoing Int Calls"
Item
Identifier of item: "F9"
Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

PROACTIVE COMMAND: SET UP MENU 1.2.3

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha Identifier: "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh"

Item

Identifier of item: "01"
Text string of item: "Y"

Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	81	EC	54	68	65	20	53	49	4D	20	73
	68	61	6C	6C	20	73	75	70	70	6C	79	20
	61	20	73	65	74	20	6F	66	20	6D	65	6E
	75	20	69	74	65	6D	73	2C	20	77	68	69
	63	68	20	73	68	61	6C	6C	20	62	65	20
	69	6E	74	65	67	72	61	74	65	64	20	77
	69	74	68	20	74	68	65	20	6D	65	6E	75
	20	73	79	73	74	65	6D	20	28	6F	72	20
	6F	74	68	65	72	20	4D	4D	49	20	66	61
	63	69	6C	69	74	79	29	20	69	6E	20	6F
	72	64	65	72	20	74	6F	20	67	69	76	65
	20	74	68	65	20	75	73	65	72	20	74	68
	65	20	6F	70	70	6F	72	74	75	6E	69	74
	79	20	74	6F	20	63	68	6F	6F	73	65	20
	6F	6E	65	20	6F	66	20	74	68	65	73	65
	20	6D	65	6E	75	20	69	74	65	6D	73	20
	61	74	20	68	69	73	20	6F	77	6E	20	64
	69	73	63	72	65	74	69	6F	6E	2E	20	45
	61	63	68	20	69	74	65	6D	20	63	6F	6D
	70	72	69	73	65	73	20	61	20	73	68	8F
	02	01	59									

TERMINAL RESPONSE: SET UP MENU 1.2.1, 1.2.2 and 1.2.3

Logically:

Command details

Command number: 1
Command type: SET UP MENU
Command qualifier: "no help information available"

Device identities

Source device: Terminal
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 1.2.1: MENU SELECTION

Logically:

Menu selection

Device identities
Source device: Keypad
Destination device: UICC
Item identifier 3D

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	3D

ENVELOPE 1.2.2: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier FB

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	FB

ENVELOPE 1.2.3: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 01

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	01

The following table details the test requirements with relation to the tested features:

	Proactive UICC Command Facilities		
Proactive UICC Command Number	**Alpha Identifier Length**	**Number of items**	**Maximum length of item**
1.1.1	12	4	6
1.1.2	12	2	3
1.1.3	10	0	-
1.2.1	10	30	8
1.2.2	10	7	37
1.2.3	235	1	1

27.22.4.8.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1 and in expected sequence 1.2.

27.22.4.8.2 SET UP MENU (help request support) and ENVELOPE MENU SELECTION

27.22.4.8.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clause 8.21.

27.22.4.8.2.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the Terminal informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.2.4 Method of test

27.22.4.8.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.2.4.2 Procedure

Expected Sequence 2.1 (SET UP MENU and MENU SELECTION, with Help Request, Replace and Remove a Toolkit Menu)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 2.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 2.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 2.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	
9	USER → Terminal	Select the Help Request on "Item 2" Menu entry	
10	Terminal → UICC	Send the ENVELOPE 2.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 2.1.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "80"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Menu"

Item
Identifier of item: 1
Text string of item: "Item 1"
Item
Identifier of item: 2
Text string of item: "Item 2"
Item
Identifier of item: 3
Text string of item: "Item 3"
Item
Identifier of item: 4
Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3B	81	03	01	25	80	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34											

TERMINAL RESPONSE: SET UP MENU 2.1.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "help information available"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	80	82	02	82	81	83	01	00

ENVELOPE 2.1.1: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 02
Help request tag

Coding:

BER-TLV:	D3	09	82	02	01	81	90	01	02	15	00

27.22.4.8.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.8.3 SET UP MENU (next action support) and ENVELOPE MENU SELECTION

27.22.4.8.3.1 Definition and applicability

See clause 3.2.2.

If the UICC provides an Items Next Action Indicator data object, the comprehension required flag shall be set to '0'.

27.22.4.8.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clause 8.24.

27.22.4.8.3.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the next action indicator is supported.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.3.4 Method of test

27.22.4.8.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.3.4.2 Procedure

Expected Sequence 3.1 (SET UP MENU, next action indicator "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information", successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 3.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 3.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 3.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	

Step	Direction	MESSAGE / Action	Comments
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	The Terminal may indicate to the user the consequences of performing the selection of an item.
9	USER → Terminal	Navigate in the items, then select "Item 2".	The Terminal may indicate to the user the consequences of performing the selection of an item.
10	Terminal → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

ENVELOPE 3.1.1: MENU SELECTION

Logically:

Menu selection
- Device identities
- Source device: Keypad
- Destination device: UICC
- Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02		

PROACTIVE COMMAND: SET UP MENU 3.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Item
- Identifier of item: 4
- Text string of item: "Item 4"

Items next action indicator list
- List: "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information"

Coding:

BER-TLV:	D0	41	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34	18	04	13	10	15	26					

TERMINAL RESPONSE: SET UP MENU 3.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "no help information available"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.1.

27.22.4.8.4 SET UP MENU (display of icons) and ENVELOPE MENU SELECTION

27.22.4.8.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.31 and 8.32.

27.22.4.8.4.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that icons are displayed with the command Set Up Menu in the Alpha Identifier and Items Data Objects. To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.4.4 Method of test

27.22.4.8.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.4.4.2 Procedure

Expected Sequence 4.1A (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 4.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 4.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 4.1.1A	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	Verify the icon is displayed with alpha id.
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3".	
9	USER → Terminal	Navigate in the items, then select "Item 2".	Verify icons are displayed for each item.
10	Terminal → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 4.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
Identifier of item: 3
Text string of item: "Item 3"

Icon identifier
Icon qualifier: icon is not self explanatory
Icon identifier: record 1 EF (IMG)

Item icon identifier list
Icon qualifier: icon is not self explanatory
Icon identifier list: record 5 EF (IMG), record 5 EF (IMG), record 5 EF (IMG)

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	9E	02	01	01	9F	04	01	05
	05	05										

TERMINAL RESPONSE: SET UP MENU 4.1.1A

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "no help information available"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

Expected Sequence 4.1B (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 4.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 4.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 4.1.1B	Command performed successfully, but requested icon could not be displayed.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header "Toolkit Menu".	Verify that either for the header or for each of the items no icon is displayed.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

TERMINAL RESPONSE: SET UP MENU 4.1.1B

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "no help information available"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	04

Expected Sequence 4.2A (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 4.2.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 4.2.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 4.2.1A	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	Verify the icon is displayed in alpha id.
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3".	
9	USER → Terminal	Navigate in the items, then select "Item 2".	Verify icons are displayed for each item.
10	Terminal → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 4.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Icon identifier
- Icon qualifier: icon is self explanatory
- Icon identifier: record 1 EF (IMG)

Item icon identifier list
- Icon qualifier: icon is self explanatory
- Icon identifier list: record 5 EF (IMG), record 5 EF (IMG), record 5 EF (IMG)

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	9E	02	00	01	9F	04	00	05
	05	05										

TERMINAL RESPONSE: SET UP MENU 4.2.1A

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "no help information available"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

Expected Sequence 4.2B (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 4.2.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 4.2.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 4.2.1B	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu".	Verify that either for the header or for each of the items no icon is displayed.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

TERMINAL RESPONSE: SET UP MENU 4.2.1B

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "no help information available"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	04

27.22.4.8.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 4.1A to 4.2B.

27.22.4.8.5 SET UP MENU (soft keys support) and ENVELOPE MENU SELECTION

27.22.4.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1.

27.22.4.8.5.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that if soft key preferred is indicated in the command details and soft key for SET UP MENU is supported by the Terminal and the number of icon items does not exceed the number of soft keys available, then the Terminal displays those icons as soft key.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.5.4 Method of test

27.22.4.8.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.5.4.2 Procedure

Expected Sequence 5.1 (SET UP MENU, SOFT KEY PREFERRED, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 5.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 5.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 5.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2"	
9	USER → Terminal	Navigate in the items, then select "Item 2".	Verify we can select items through soft keys.
10	Terminal → UICC	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

PROACTIVE COMMAND: SET UP MENU 5.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: '01' (selection using soft key preferred)

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Coding:

BER-TLV:	D0	29	81	03	01	25	01	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32					

TERMINAL RESPONSE: SET UP MENU 5.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: '01' (selection using soft key preferred)

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	01	82	02	82	81	83	01	00

27.22.4.8.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 5.1.

27.22.4.8.6 SET UP MENU (support of Text Attribute) and ENVELOPE MENU SELECTION

27.22.4.8.6.1 SET UP MENU (support of Text Attribute - Left Alignment) and ENVELOPE MENU SELECTION

27.22.4.8.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.1.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.1.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the left alignment text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.1.4 Method of test

27.22.4.8.6.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.1.4.2 Procedure

Expected Sequence 6.1 (SET UP MENU, Text Attribute - Left Alignment, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.1.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify text attribute of the alpha identifier and of each item are displayed with left alignment.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.1.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.1.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.1.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify text attribute of the alpha identifier and of each item are displayed without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/9, no alignment change will take place.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

PROACTIVE COMMAND: SET UP MENU 6.1.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
- Formatting position: 0
- Formatting length: 14
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #3
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	00	B4
	D1	0C	00	06	00	B4	00	06	00	B4	00	06
	00	B4										

TERMINAL RESPONSE: SET UP MENU 6.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.1.2

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Menu 2"

Item
Identifier of item: 4
Text string of item: "Item 4"
Item
Identifier of item: 5
Text string of item: "Item 5"
Item
Identifier of item: 6
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36						

ENVELOPE 6.1.1: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02		

ENVELOPE 6.1.2: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 05

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	05		

27.22.4.8.6.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.1.

27.22.4.8.6.2 SET UP MENU (support of Text Attribute - Center Alignment) and ENVELOPE MENU SELECTION

27.22.4.8.6.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.2.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the center alignment text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.2.4 Method of test

27.22.4.8.6.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.2.4.2 Procedure

Expected Sequence 6.2 (SET UP MENU, Text Attribute - Center Alignment, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.2.1	

Step	Direction	MESSAGE / Action	Comments
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.2.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify text attribute of the alpha identifier and of each item are displayed with center alignment.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.2.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.2.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.2.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify text attribute of the alpha identifier and of each item are displayed without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/9, no alignment change will take place.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

PROACTIVE COMMAND: SET UP MENU 6.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
Identifier of item: 2
Text string of item: "Item 2"
Item
Identifier of item: 3
Text string of item: "Item 3"

Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Centre Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	01	B4
	D1	0C	00	06	01	B4	00	06	01	B4	00	06
	01	B4										

TERMINAL RESPONSE: SET UP MENU 6.2.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.2.2

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 2"

Item
- Identifier of item: 4
- Text string of item: "Item 4"

Item
- Identifier of item: 5
- Text string of item: "Item 5"

Item
- Identifier of item: 6
- Text string of item: "Item 6"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36						

27.22.4.8.6.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.2.

27.22.4.8.6.3 SET UP MENU (support of Text Attribute - Right Alignment) and ENVELOPE MENU SELECTION

27.22.4.8.6.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.3.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the right alignment text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.3.4 Method of test

27.22.4.8.6.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.3.4.2 Procedure

Expected Sequence 6.3 (SET UP MENU, Text Attribute - Right Alignment, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.3.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.3.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify text attribute of the alpha identifier and of each item are displayed with right alignment.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.3.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.3.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.3.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify text attribute of the alpha identifier and of each item are displayed without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/9, no alignment change will take place.

Step	Direction	MESSAGE / Action	Comments
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

PROACTIVE COMMAND: SET UP MENU 6.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
- Formatting position: 0
- Formatting length: 14
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #3
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Text colour: Foreground: black, background: white

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	02	B4
	D1	0C	00	06	02	B4	00	06	02	B4	00	06
	02	B4										

TERMINAL RESPONSE: SET UP MENU 6.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.3.2

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 2"

Item
- Identifier of item: 4
- Text string of item: "Item 4"

Item
- Identifier of item: 5
- Text string of item: "Item 5"

Item
- Identifier of item: 6
- Text string of item: "Item 6"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36						

27.22.4.8.6.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.3.

27.22.4.8.6.4 SET UP MENU (support of Text Attribute - Large Font Size) and ENVELOPE MENU SELECTION

27.22.4.8.6.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.4.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the large font size text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.4.4 Method of test

27.22.4.8.6.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.4.4.2 Procedure

Expected Sequence 6.4 (SET UP MENU, Text Attribute - Large Font Size, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with large font size.

Step	Direction	MESSAGE / Action	Comments
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify that the alpha identifier and each item is displayed with normal font size.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.1	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.1	
24	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
28	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with large font size.
29	USER → Terminal	Navigate in the items, then select "Item 2".	
30	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	

Step	Direction	MESSAGE / Action	Comments
35	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.4.1	Command Performed Successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	
38	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is displayed with normal font size.
39	USER → Terminal	Navigate in the items, then select "Item 8".	
40	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
- Formatting position: 0
- Formatting length: 14
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	04	B4
	D1	0C	00	06	04	B4	00	06	04	B4	00	06
	04	B4										

TERMINAL RESPONSE: SET UP MENU 6.4.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP MENU 6.4.2

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Menu 2"

Item
Identifier of item: 4
Text string of item: "Item 4"
Item
Identifier of item: 5
Text string of item: "Item 5"
Item
Identifier of item: 6
Text string of item: "Item 6"

Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	32	8F	07	04	49	74	65	6D	20	34
	8F	07	05	49	74	65	6D	20	35	8F	07	06
	49	74	65	6D	20	36	D0	04	00	0E	00	B4
	D1	0C	00	06	00	B4	00	06	00	B4	00	06
	00	B4										

PROACTIVE COMMAND: SET UP MENU 6.4.3

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Menu 3"

Item
Identifier of item: 7
Text string of item: "Item 7"
Item
Identifier of item: 8
Text string of item: "Item 8"
Item
Identifier of item: 9
Text string of item: "Item 9"

Coding:

BER-TLV:	D0	34	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	33	8F	07	07	49	74	65	6D	20	37
	8F	07	08	49	74	65	6D	20	38	8F	07	09
	49	74	65	6D	20	39						

ENVELOPE 6.4.1: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 08

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	08		

27.22.4.8.6.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.4.

27.22.4.8.6.5 SET UP MENU (support of Text Attribute - Small Font Size) and ENVELOPE MENU SELECTION

27.22.4.8.6.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.5.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the with small font size text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.5.4 Method of test

27.22.4.8.6.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.5.4.2 Procedure

Expected Sequence 6.5 (SET UP MENU, Text Attribute - Small Font Size, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.5.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with small font size.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify that the alpha identifier and each item is displayed with normal font size.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.5.1	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.5.1	
24	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	Command Performed Successfully.

Step	Direction	MESSAGE / Action	Comments
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
28	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with small font size.
29	USER → Terminal	Navigate in the items, then select "Item 2".	
30	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.5.1	Command Performed Successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	
38	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is displayed with normal font size.
39	USER → Terminal	Navigate in the items, then select "Item 8".	
40	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	08	B4
	D1	0C	00	06	08	B4	00	06	08	B4	00	06
	08	B4										

TERMINAL RESPONSE: SET UP MENU 6.5.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.5.

27.22.4.8.6.6 SET UP MENU (support of Text Attribute - Bold On) and ENVELOPE MENU SELECTION

27.22.4.8.6.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.6.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.6.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.6.4 Method of test

27.22.4.8.6.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.6.4.2 Procedure

Expected Sequence 6.6 (SET UP MENU, Text Attribute - Bold On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.6.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with bold on.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify that the alpha identifier and each item is displayed with bold off.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.6.1	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.6.1	
24	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	Command Performed Successfully.

Step	Direction	MESSAGE / Action	Comments
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
28	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with bold on.
29	USER → Terminal	Navigate in the items, then select "Item 2".	
30	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.6.1	Command Performed Successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	
38	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is displayed with bold off.
39	USER → Terminal	Navigate in the items, then select "Item 8".	
40	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.6.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	10	B4
	D1	0C	00	06	10	B4	00	06	10	B4	00	06
	10	B4										

TERMINAL RESPONSE: SET UP MENU 6.6.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.6.

27.22.4.8.6.7 SET UP MENU (support of Text Attribute - Italic On) and ENVELOPE MENU SELECTION

27.22.4.8.6.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.7.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.7.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.7.4 Method of test

27.22.4.8.6.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.7.4.2 Procedure

Expected Sequence 6.7 (SET UP MENU, Text Attribute - Italic On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.7.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with italics on.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	

Step	Direction	MESSAGE / Action	Comments
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6' under the header of "Toolkit Menu 2".	Verify that the alpha identifier and each item is displayed with italics off.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.7.1	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.7.1	
24	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
28	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with italics on.
29	USER → Terminal	Navigate in the items, then select "Item 2".	
30	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.7.1	Command Performed Successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	

Step	Direction	MESSAGE / Action	Comments
38	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is displayed with italics off.
39	USER → Terminal	Navigate in the items, then select "Item 8".	
40	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.7.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
- Formatting position: 0
- Formatting length: 14
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #3
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	20	B4
	D1	0C	00	06	20	B4	00	06	20	B4	00	06
	20	B4										

TERMINAL RESPONSE: SET UP MENU 6.7.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.7.

27.22.4.8.6.8 SET UP MENU (support of Text Attribute - Underline On) and ENVELOPE MENU SELECTION

27.22.4.8.6.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.8.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.8.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.8.4 Method of test

27.22.4.8.6.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.8.4.2 Procedure

Expected Sequence 6.8 (SET UP MENU, Text Attribute - Underline On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.8.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with underline on.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify that the alpha identifier and each item is displayed with underline off.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	

Step	Direction	MESSAGE / Action	Comments
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.8.1	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.8.1	
24	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
28	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with underline on.
29	USER → Terminal	Navigate in the items, then select "Item 2".	
30	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.8.1	Command Performed Successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	
38	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is displayed with underline off.
39	USER → Terminal	Navigate in the items, then select "Item 8".	
40	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.8.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
Identifier of item: 1
Text string of item: "Item 1"

Item
Identifier of item: 2
Text string of item: "Item 2"

Item
Identifier of item: 3
Text string of item: "Item 3"

Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	40	B4
	D1	0C	00	06	40	B4	00	06	40	B4	00	06
	40	B4										

TERMINAL RESPONSE: SET UP MENU 6.8.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.8.

27.22.4.8.6.9 SET UP MENU (support of Text Attribute - Strikethrough On) and ENVELOPE MENU SELECTION

27.22.4.8.6.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.9.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.9.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.9.4 Method of test

27.22.4.8.6.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.9.4.2 Procedure

Expected Sequence 6.9 (SET UP MENU, Text Attribute - Strikethrough On, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.9.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with strikethrough on.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.2	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.2	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 2" into its menu system and have the menu items of "Item 4", "Item 5", "Item 6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 2"	
18	Terminal → USER	Display "Item 4", "Item 5", "Item 6" under the header of "Toolkit Menu 2".	Verify that the alpha identifier and each item is displayed with strikethrough off.
19	USER → Terminal	Navigate in the items, then select "Item 5".	
20	Terminal → UICC	Send the ENVELOPE 6.1.2: MENU SELECTION (Identifier of item: 5)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.9.1	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.9.1	
24	Terminal → USER	Integrate the menu header of "Toolkit Menu 1" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	Command Performed Successfully.

Step	Direction	MESSAGE / Action	Comments
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 1"	
28	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu 1".	Verify that the alpha identifier and each item is displayed with strikethrough on.
29	USER → Terminal	Navigate in the items, then select "Item 2".	
30	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
34	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
35	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.9.1	Command Performed Successfully.
36	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
37	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	
38	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is displayed with strikethrough off.
39	USER → Terminal	Navigate in the items, then select "Item 8".	
40	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.9.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu 1"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Item #3
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	48	81	03	01	25	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	20	31	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	D0	04	00	0E	80	B4
	D1	0C	00	06	80	B4	00	06	80	B4	00	06
	80	B4										

TERMINAL RESPONSE: SET UP MENU 6.9.1

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.9.

27.22.4.8.6.10 SET UP MENU (support of Text Attribute - Foreground and Background Colour) and ENVELOPE MENU SELECTION

27.22.4.8.6.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.10.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.10.3 Test purpose

To verify that the Terminal correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.10.4 Method of test

27.22.4.8.6.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.6.10.4.2 Procedure

Expected Sequence 6.10 (SET UP MENU, Text Attribute - Foreground and Background Colour, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.10.1	
4	Terminal → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.10.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "Toolkit Menu"	
8	Terminal → USER	Display "Item 1", "Item 2", "Item 3" under the header of "Toolkit Menu".	Verify that the alpha identifier and each item is formatted according to the foreground and background colour text attribute configuration.
9	USER → Terminal	Navigate in the items, then select "Item 2".	
10	Terminal → UICC	Send the ENVELOPE 6.1.1: MENU SELECTION (Identifier of item: 2)	

Step	Direction	MESSAGE / Action	Comments
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 6.4.3	
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 6.4.3	
14	Terminal → USER	Integrate the menu header of "Toolkit Menu 3" into its menu system and have the menu items of "Item 7", "Item 8", "Item 9" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 6.10.1	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "Toolkit Menu 3"	
18	Terminal → USER	Display "Item 7", "Item 8", "Item 9" under the header of "Toolkit Menu 3".	Verify that the alpha identifier and each item is formatted with the Terminal's default foreground and background colour
19	USER → Terminal	Navigate in the items, then select "Item 8".	
20	Terminal → UICC	Send the ENVELOPE 6.4.1: MENU SELECTION (Identifier of item: 8)	

PROACTIVE COMMAND: SET UP MENU 6.10.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Menu"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Text Attribute
- Formatting position: 0
- Formatting length: 12
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List

Text Attribute List:

Item #1

Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2

Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #3

Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	46	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	D0	04	00	0C	00	B4	D1	0C
	00	06	00	B4	00	06	00	B4	00	06	00	B4

TERMINAL RESPONSE: SET UP MENU 6.10.1

Logically:

Command details

Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities

Source device: Terminal
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

27.22.4.8.6.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.10.

27.22.4.8.7 SET UP MENU (UCS2 display in Cyrillic) and ENVELOPE MENU SELECTION

27.22.4.8.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.7.2 Conformance requirement

The Terminal shall support the SET UP MENU command as defined in:

- TS 102 223 [1], clauses 5, 6.4.8, 6.6.7, 6.8, 6.11, 8.6, 8.7, 8.2, 8.9 and 9.4.

The Terminal shall support MENU SELECTION as defined in:

- TS 102 223 [1], clauses 4.4, 5.2, 6.4.8, 6.9, 7.2, 8.7 and 8.10.

27.22.4.8.7.3 Test purpose

To verify that the Terminal correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the Terminal removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the Terminal informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.7.4 Method of test

27.22.4.8.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.7.4.2 Procedure

Expected Sequence 7.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 in Cyrillic Characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 7.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 7.1.1	
4	Terminal → USER	Integrate the menu header of "ЗДРАВСТВУЙТЕ" into its menu system and have the menu items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2", "ЗДРАВСТВУЙТЕ3" and "ЗДРАВСТВУЙТЕ4" under this header.	"ЗДРАВСТВУЙТЕ": "Hello" in Russian.
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 7.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

Step	Direction	MESSAGE / Action	Comments
7	USER → Terminal	Select the Toolkit Menu "ЗДРАВСТВУЙТЕ"	
8	Terminal → USER	Display "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2", "ЗДРАВСТВУЙТЕ3", "ЗДРАВСТВУЙТЕ4	
9	USER → Terminal	Select the "ЗДРАВСТВУЙТЕ2" Menu entry	
10	Terminal → UICC	Send the ENVELOPE 7.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 7.1.2	Second Set Up Menu, REPLACE Old Menu.
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 7.1.2	
14	Terminal → USER	Integrate the new menu header of "ЗДРАВСТВУЙТЕ" into its menu system and have the menu items of "ЗДРАВСТВУЙТЕ5" and "ЗДРАВСТВУЙТЕ6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 7.1.2	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "ЗДРАВСТВУЙТЕ"	
18	Terminal → USER	Display "ЗДРАВСТВУЙТЕ5", "ЗДРАВСТВУЙТЕ 6"	
19	USER → Terminal	Select the "ЗДРАВСТВУЙТЕ6" menu entry	
20	Terminal → UICC	Send the ENVELOPE 7.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 7.1.3 with SW1 / SW2 of '91 0F'.	Third Set Up Menu, REMOVE Toolkit Menu.
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 7.1.3	
24	Terminal → USER	Remove the menu "ЗДРАВСТВУЙТЕ" from its menu system.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 7.1.3	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 7.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "ЗДРАВСТВУЙТЕ"

Item
Identifier of item: 1
Text string of item: "ЗДРАВСТВУЙТЕ1"
Item
Identifier of item: 2
Text string of item: "ЗДРАВСТВУЙТЕ2"
Item
Identifier of item: 3
Text string of item: "ЗДРАВСТВУЙТЕ3"
Item
Identifier of item: 4
Text string of item: "ЗДРАВСТВУЙТЕ4"

Coding:

BER-TLV:	D0	81	9C	81	03	01	25	00	82	02	81	82
	85	19	80	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15	8F	1C	01	80	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15	00	31	8F	1C	02
	80	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15	00	32	8F	1C	03	80	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15	00	33	8F	1C	04
	80	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15	00	34									

PROACTIVE COMMAND: SET UP MENU 7.1.2

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "ЗДРАВСТВУЙТЕ"

Item
Identifier of item: "11"
Text string of item: "ЗДРАВСТВУЙТЕ5"

Item
Identifier of item: "12"
Text string of item: "ЗДРАВСТВУЙТЕ6"

Coding:

BER-TLV:	D0	60	81	03	01	25	00	82	02	81	82	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8F	1C	11	80	04	17	04	14	04	20
	04	10	04	12	04	21	04	22	04	12	04	23
	04	19	04	22	04	15	00	35	8F	1C	12	80
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15
	00	36										

PROACTIVE COMMAND: SET UP MENU 7.1.3

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: Null data object

Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 7.1.1, 7.1.2 and 7.1.3

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 7.1.1: MENU SELECTION

Logically:

Menu selection
- Device identities
- Source device: Keypad
- Destination device: UICC
- Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 7.1.2: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

27.22.4.8.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 7.1.

27.22.4.8.8 SET UP MENU (UCS2 display in Chinese) and ENVELOPE MENU SELECTION

27.22.4.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.8.2 Conformance requirement

The Terminal shall support the SET UP MENU command as defined in:

- TS 102 223 [1], clauses 5, 6.4.8, 6.6.7, 6.8, 6.11, 8.6, 8.7, 8.2, 8.9 and 9.4.

The Terminal shall support MENU SELECTION as defined in:

- TS 102 223 [1], clauses 4.4, 5.2, 6.4.8, 6.9, 7.2, 8.7 and 8.10.

27.22.4.8.8.3 Test purpose

To verify that the Terminal correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the Terminal removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the Terminal informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.8.4 Method of test

27.22.4.8.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.8.4.2 Procedure

Expected Sequence 8.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 - Chinese Characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 8.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 8.1.1	
4	Terminal → USER	Integrate the menu header of "工具箱单" into its menu system and have the menu items of "项目一", "项目二", "项目三" and "项目四" under this header.	"工具箱单": "Toolkit Menu" in Chinese. "项目一": "Item 1" in Chinese. "项目二": "Item 2" in Chinese. "项目三": "Item 3" in Chinese. "项目四": "Item 4" in Chinese.
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 8.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "工具箱单"	
8	Terminal → USER	Display "项目一", "项目二", "项目三", "项目四"	
9	USER → Terminal	Select the "项目二" Menu entry	
10	Terminal → UICC	Send the ENVELOPE 8.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 8.1.2	Second Set Up Menu, REPLACE Old Menu
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 8.1.2	
14	Terminal → USER	Integrate the new menu header of "工具箱单" into its menu system and have the menu items of "一" and "二" under this header.	"一": "One" in Chinese. "二": "Two" in Chinese.
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 8.1.2	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "工具箱单"	
18	Terminal → USER	Display "一", "二"	
19	USER → Terminal	Select the "二" menu entry	
20	Terminal → UICC	Send the ENVELOPE 8.1.2: MENU SELECTION (Identifier of item: 12)	

Step	Direction	MESSAGE / Action	Comments
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 8.1.3 with SW1 / SW2 of '91 0F'.	Third Set Up Menu, REMOVE Toolkit Menu.
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 8.1.3	
24	Terminal → USER	Remove the menu "工具箱单" from its menu system.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 8.1.3	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 8.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "工具箱单"

Item
- Identifier of item: 1
- Text string of item: "项目一"

Item
- Identifier of item: 2
- Text string of item: "项目二"

Item
- Identifier of item: 3
- Text string of item: "项目三"

Item
- Identifier of item: 4
- Text string of item: "项目四"

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	09	80	5D	E5	51	77	7B	B1	53	55	8F	08
	01	80	98	79	76	EE	4E	00	8F	08	02	80
	98	79	76	EE	4E	8C	8F	08	03	80	98	79
	76	EE	4E	09	8F	08	04	80	98	79	76	EE
	56	DB										

PROACTIVE COMMAND: SET UP MENU 8.1.2

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "工具箱单"

Item
Identifier of item: "11"
Text string of item: "—"
Item
Identifier of item: "12"
Text string of item: "二"

Coding:

BER-TLV:	D0	20	81	03	01	25	00	82	02	81	82	85
	09	80	5D	E5	51	77	7B	B1	53	55	8F	04
	11	80	4E	00	8F	04	12	80	4E	8C		

PROACTIVE COMMAND: SET UP MENU 8.1.3

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: Null data object

Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 8.1.1, 8.1.2 and 8.1.3

Logically:

Command details
Command number: 1
Command type: SET UP MENU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 8.1.1: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 8.1.2: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

27.22.4.8.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.1.

27.22.4.8.9 SET UP MENU (UCS2 display in Katakana) and ENVELOPE MENU SELECTION

27.22.4.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.9.2 Conformance requirement

The Terminal shall support the SET UP MENU command as defined in:

- TS 102 223 [1], clauses 5, 6.4.8, 6.6.7, 6.8, 6.11, 8.6, 8.7, 8.2, 8.9 and 9.4.

The Terminal shall support MENU SELECTION as defined in:

- TS 102 223 [1], clauses 4.4, 5.2, 6.4.8, 6.9, 7.2, 8.7 and 8.10.

27.22.4.8.9.3 Test purpose

To verify that the Terminal correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the Terminal replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the Terminal removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the Terminal correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user gas indicated the need to get help information on one of the items, the Terminal informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

27.22.4.8.9.4 Method of test

27.22.4.8.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

The Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.8.9.4.2 Procedure

Expected Sequence 9.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 in Katakana Characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 9.1.1	First Set Up Menu.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 9.1.1	
4	Terminal → USER	Integrate the menu header of "80ルレ0" into its menu system and have the menu items of "80ルレ1", "80ルレ2", "80ルレ3" and "80ルレ4" under this header.	Menu Header and menu items use characters in Katakana.
5	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 9.1.1	Command Performed Successfully.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	USER → Terminal	Select the Toolkit Menu "80ルレ0"	
8	Terminal → USER	Display "80ルレ1", "80ルレ2", "80ルレ3", "80ルレ4"	
9	USER → Terminal	Select the "80ルレ2" Menu entry	
10	Terminal → UICC	Send the ENVELOPE 9.1.1: MENU SELECTION (Identifier of item: 2)	
11	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 9.1.2	Second Set Up Menu, REPLACE Old Menu.
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 9.1.2	
14	Terminal → USER	Integrate the new menu header of "80ルレ0" into its menu system and have the menu items of "80ルレ5" and "80ルレ6" under this header.	
15	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 9.1.2	Command Performed Successfully.
16	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
17	USER → Terminal	Select the Toolkit Menu "80ルレ0"	
18	Terminal → USER	Display "80ルレ5", "80ルレ6"	

Step	Direction	MESSAGE / Action	Comments
19	USER → Terminal	Select the "80ルレ6" menu entry	
20	Terminal → UICC	Send the ENVELOPE 9.1.2: MENU SELECTION (Identifier of item: 12)	
21	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP MENU 9.1.3 with SW1 / SW2 of '91 0F'.	Third Set Up Menu, REMOVE Toolkit Menu.
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND SET UP MENU 9.1.3	
24	Terminal → USER	Remove the menu "80ルレ0" from its menu system.	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP MENU 9.1.3	Command Performed Successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 9.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "80ルレ0"

Item
- Identifier of item: 1
- Text string of item: "80ルレ1"

Item
- Identifier of item: 2
- Text string of item: "80ルレ2"

Item
- Identifier of item: 3
- Text string of item: "80ルレ3"

Item
- Identifier of item: 4
- Text string of item: "80ルレ4"

Coding:

BER-TLV:	D0	44	81	03	01	25	00	82	02	81	82	85
	09	80	00	38	00	30	30	EB	00	30	8F	0A
	01	80	00	38	00	30	30	EB	00	31	8F	0A
	02	80	00	38	00	30	30	EB	00	32	8F	0A
	03	80	00	38	00	30	30	EB	00	33	8F	0A
	04	80	00	38	00	30	30	EB	00	34		

PROACTIVE COMMAND: SET UP MENU 9.1.2

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "80ルO"

Item
- Identifier of item: "11"
- Text string of item: "80ルS"

Item
- Identifier of item: "12"
- Text string of item: "80ルT"

Coding:

BER-TLV:	D0	2C	81	03	01	25	00	82	02	81	82	85
	09	80	00	38	00	30	30	EB	00	30	8F	0A
	11	80	00	38	00	30	30	EB	00	35	8F	0A
	12	80	00	38	00	30	30	EB	00	36		

PROACTIVE COMMAND: SET UP MENU 9.1.3

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: Null data object

Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 9.1.1, 9.1.2 and 9.1.3

Logically:

Command details
- Command number: 1
- Command type: SET UP MENU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00

ENVELOPE 9.1.1: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02

ENVELOPE 9.1.2: MENU SELECTION

Logically:

Menu selection
Device identities
Source device: Keypad
Destination device: UICC
Item identifier 12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12

27.22.4.8.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.1.

27.22.4.9 SELECT ITEM

27.22.4.9.1 SELECT ITEM (mandatory features for Terminal supporting SELECT ITEM)

27.22.4.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 102 223 [1], clauses 5, 6.4.9, 6.6.8, 6.8, 8.6, 8.7, 8.2, 8.9, 9.4 and 10.

27.22.4.9.1.3 Test purpose

To verify that the Terminal correctly presents the set of items contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the Terminal allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the Terminal returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the Terminal returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.1.4 Method of test

27.22.4.9.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.1.4.2 Procedure

Expected Sequence 1.1 (SELECT ITEM, mandatory features, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2", "Item 3" and "Item 4" under the header of "Toolkit Select".	
5	USER → Terminal	Select "Item 2".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select"

Item
- Identifier of item: 1
- Text string of item: "Item 1"

Item
- Identifier of item: 2
- Text string of item: "Item 2"

Item
- Identifier of item: 3
- Text string of item: "Item 3"

Item
- Identifier of item: 4
- Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	8F	07	04	49	74	65
	6D	20	34									

TERMINAL RESPONSE: SELECT ITEM 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 1.2 (SELECT ITEM, large menu, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.2.1	
4	Terminal → USER	Present the items of "Zero", "One", "Two", Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under the header of "LargeMenu1"	
5	USER → Terminal	Select item "Orange".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "LargeMenu1"

Item
Identifier of item: "50"
Text string of item: "Zero"
Item
Identifier of item: "4F"
Text string of item: "One"
Item
Identifier of item: "4E"
Text string of item: "Two"
Item
Identifier of item: "4D"
Text string of item: "Three"
Item
Identifier of item: "4C"
Text string of item: "Four"
Item
Identifier of item: "4B"
Text string of item: "Five"
Item
Identifier of item: "4A"
Text string of item: "Six"
Item
Identifier of item: "49"
Text string of item: "Seven"
Item
Identifier of item: "48"
Text string of item: "Eight"
Item
Identifier of item: "47"
Text string of item: "Nine"
Item
Identifier of item: "46"
Text string of item: "Alpha"
Item
Identifier of item: "45"
Text string of item: "Bravo"
Item
Identifier of item: "44"
Text string of item: "Charlie"
Item
Identifier of item: "43"
Text string of item: "Delta"
Item
Identifier of item: "42"
Text string of item: "Echo"
Item
Identifier of item: "41"
Text string of item: "Fox-trot"
Item
Identifier of item: "40"
Text string of item: "Black"
Item
Identifier of item: "3F"
Text string of item: "Brown"
Item
Identifier of item: "3E"
Text string of item: "Red"

Item
Identifier of item: "3D"
Text string of item: "Orange"
Item
Identifier of item: "3C"
Text string of item: "Yellow"
Item
Identifier of item: "3B"
Text string of item: "Green"
Item
Identifier of item: "3A"
Text string of item: "Blue"
Item
Identifier of item: "39"
Text string of item: "Violet"
Item
Identifier of item: "38"
Text string of item: "Grey"
Item
Identifier of item: "37"
Text string of item: "White"
Item
Identifier of item: "36"
Text string of item: "milli"
Item
Identifier of item: "35"
Text string of item: "micro"
Item
Identifier of item: "34"
Text string of item: "nano"
Item
Identifier of item: "33"
Text string of item: "pico"

Coding:

BER-TLV:	D0	81	FC	81	03	01	24	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

TERMINAL RESPONSE: SELECT ITEM 1.2.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 3D

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	3D									

Expected Sequence 1.3 (SELECT ITEM, call options, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.3.1	
4	Terminal → USER	Present the items of " Call Forwarding Unconditional", "Call Forwarding On User Busy", "Call Forwarding On No Reply", "Call Forwarding On User Not Reachable", "Barring Of All Outgoing Calls", "Barring Of All Outgoing International Calls" and "CLI Presentation" under the header of " LargeMenu2	
5	USER → Terminal	Select item "Barring Of All Outgoing Calls".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.3.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "LargeMenu2"

Item
Identifier of item: "FF"
Text string of item: "Call Forwarding Unconditional"
Item
Identifier of item: "FE"
Text string of item: "Call Forwarding On User Busy"
Item
Identifier of item: "FD"
Text string of item: "Call Forwarding On No Reply"
Item
Identifier of item: "FC"
Text string of item: "Call Forwarding On User Not Reachable"
Item
Identifier of item: "FB"
Text string of item: "Barring Of All Outgoing Calls"
Item
Identifier of item: "FA"
Text string of item: "Barring Of All Outgoing International Calls"
Item
Identifier of item: "F9"
Text string of item: "CLI Presentation"

Coding:

BER-TLV:	D0	81	FB	81	03	01	24	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1E	FF	43	61	6C	6C	20	46	6F	72	77
	61	72	64	69	6E	67	20	55	6E	63	6F	6E
	64	69	74	69	6F	6E	61	6C	8F	1D	FE	43
	61	6C	6C	20	46	6F	72	77	61	72	64	69
	6E	67	20	4F	6E	20	55	73	65	72	20	42
	75	73	79	8F	1C	FD	43	61	6C	6C	20	46
	6F	72	77	61	72	64	69	6E	67	20	4F	6E
	20	4E	6F	20	52	65	70	6C	79	8F	26	FC
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	69	6E	67	20	4F	6E	20	55	73	65	72	20
	4E	6F	74	20	52	65	61	63	68	61	62	6C
	65	8F	1E	FB	42	61	72	72	69	6E	67	20
	4F	66	20	41	6C	6C	20	4F	75	74	67	6F
	69	6E	67	20	43	61	6C	6C	73	8F	2C	FA
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	65	72	6E	61	74	69	6F	6E	61
	6C	20	43	61	6C	6C	73	8F	11	F9	43	4C
	49	20	50	72	65	73	65	6E	74	61	74	69
	6F	6E										

TERMINAL RESPONSE: SELECT ITEM 1.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: FB

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	FB								

Expected Sequence 1.4 (SELECT ITEM, backward move by user, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.4.1	
4	Terminal → USER	Present the items of "One" and "Two" under the header of "Select Item".	
5	USER → Terminal	Indicate to go backwards in the proactive UICC application session.	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.4.1A or TERMINAL RESPONSE: SELECT ITEM 1.4.1B	Backward move in the proactive UICC application session requested by user.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.4.2	
10	Terminal → USER	Present the items of "One" and "Two" under the header of "Select Item".	
11	USER → Terminal	Indicate to end the proactive UICC application and return the Terminal to normal operation.	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.4.2A or TERMINAL RESPONSE: SELECT ITEM 1.4.2B	Proactive UICC application terminated by the user.
13	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.4.1 and 1.4.2

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Select Item"

Item
Identifier of item: "11"
Text string of item: "One"

Item
Identifier of item: "12"
Text string of item: "Two"

Coding:

BER-TLV:	D0	22	81	03	01	24	00	82	02	81	82	85
	0B	53	65	6C	65	63	74	20	49	74	65	6D
	8F	04	11	4F	6E	65	8F	04	12	54	77	6F

TERMINAL RESPONSE: SELECT ITEM 1.4.1A

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: backward move in the proactive UICC session requested by the user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11

TERMINAL RESPONSE: SELECT ITEM 1.4.1B

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: backward move in the proactive UICC session requested by the user

Item identifier
Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11
	90	01	XX									

TERMINAL RESPONSE: SELECT ITEM 1.4.2A

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: proactive UICC session terminated by the user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10

TERMINAL RESPONSE: SELECT ITEM 1.4.2B

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: proactive UICC session terminated by the user

Item identifier
Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10
	90	01	XX									

Expected Sequence 1.5 (SELECT ITEM, "Y", successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.5.1	
4	Terminal → USER	Present the items of "Y" under the header of "The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i".	
5	USER → Terminal	Select item "Y"	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.5.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i"

Item
- Identifier of item: "01"
- Text string of item: "Y"

Coding:

BER-TLV:	D0	81	FD	81	03	01	24	00	82	02	81	82
	85	81	ED	54	68	65	20	53	49	4D	20	73
	68	61	6C	6C	20	73	75	70	70	6C	79	20
	61	20	73	65	74	20	6F	66	20	69	74	65
	6D	73	20	66	72	6F	6D	20	77	68	69	63
	68	20	74	68	65	20	75	73	65	72	20	6D
	61	79	20	63	68	6F	6F	73	65	20	6F	6E
	65	2E	20	45	61	63	68	20	69	74	65	6D
	20	63	6F	6D	70	72	69	73	65	73	20	61
	20	73	68	6F	72	74	20	69	64	65	6E	74
	69	66	69	65	72	20	28	75	73	65	64	20
	74	6F	20	69	6E	64	69	63	61	74	65	20
	74	68	65	20	73	65	6C	65	63	74	69	6F
	6E	29	20	61	6E	64	20	61	20	74	65	78
	74	20	73	74	72	69	6E	67	2E	20	4F	70
	74	69	6F	6E	61	6C	6C	79	20	74	68	65
	20	53	49	4D	20	6D	61	79	20	69	6E	63
	6C	75	64	65	20	61	6E	20	61	6C	70	68
	61	20	69	64	65	6E	74	69	66	69	65	72
	2E	20	54	68	65	20	61	6C	70	68	61	20
	69	64	65	6E	74	69	66	69	65	72	20	
	69	8F	02	01	59							

TERMINAL RESPONSE: SELECT ITEM 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 1.6 (SELECT ITEM, Large menu, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 1.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 1.6.1	
4	Terminal → USER	Present the items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under the header of "0LargeMenu".	
5	USER → Terminal	Select item "5 Barring Of All Outgoing Calls".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 1.6.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 1.6.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "0LargeMenu"

Item
- Identifier of item: "FF"
- Text string of item: "1 Call Forward Unconditional"

Item
- Identifier of item: "FE"
- Text string of item: "2 Call Forward On User Busy"

Item
- Identifier of item: "FD"
- Text string of item: "3 Call Forward On No Reply"

Item
- Identifier of item: "FC"
- Text string of item: "4 Call Forward On User Not Reachable"

Item
- Identifier of item: "FB"
- Text string of item: "5 Barring Of All Outgoing Calls"

Item
- Identifier of item: "FA"
- Text string of item: "6 Barring Of All Outgoing Int Calls"

Item
- Identifier of item: "F9"
- Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	24	00	82	02	81	82
	85	0A	30	4C	61	72	67	65	4D	65	6E	75
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

TERMINAL RESPONSE: SELECT ITEM 1.6.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: FB

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	FB									

The following table details the test commands with relation to the tested features:

	Proactive UICC Command Facilities		
Proactive UICC Command SELECT ITEM Number	**Alpha Identifier Length**	**Number of items**	**Maximum length of item**
1.1	14	4	6
1.2	10	30	8
1.3	10	7	43
1.4	11	2	3
1.5	236	1	1
1.6	10	7	37

27.22.4.9.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1, 1.2, 1.3, 1.4, 1.5 and 1.6 (SELECT ITEM, mandatory features).

27.22.4.9.2 SELECT ITEM (next action support)

27.22.4.9.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.2.2 Conformance Requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.2.3 Test purpose

To verify that the Terminal supports next action indicator mode.

27.22.4.9.2.4 Method of test

27.22.4.9.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.2.4.2 Procedure

Expected Sequence 2.1 (SELECT ITEM, next action indicator, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 2.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	The Terminal may indicate to the user the consequences of performing the selection of an item.
5	USER → Terminal	Navigate in the items, then select "Item 2".	The Terminal may indicate to the user the consequences of performing the selection of an item.
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 2.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 2.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select"

Item
Identifier of item: 1
Text string of item: "Item 1"
Item
Identifier of item: 2
Text string of item: "Item 2"
Item
Identifier of item: 3
Text string of item: "Item 3"

Items next action indicator
Items list "Send SM", "Set Up Call", "Provide Local Info."

Coding:

BER-TLV:	D0	39	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	18	03	13	10	26	

TERMINAL RESPONSE: SELECT ITEM 2.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.9.3 SELECT ITEM (default item support)

27.22.4.9.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.3.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.3.3 Test purpose

To verify that the Terminal supports "default item" mode.

27.22.4.9.3.4 Method of test

27.22.4.9.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.3.4.2 Procedure

Expected Sequence 3.1 (SELECT ITEM, default item, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 3.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	If A.1/59 is supported, check that "Item 2" is selected by default.
5	USER → Terminal	Navigate in the items, then select "Item 3".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 3.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 3.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Item
- Identifier of item: 03
- Text string of item: "Item 3"

Item identifier
- Identifier of item chosen 02

Coding:

BER-TLV:	D0	37	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	10	01	02			

TERMINAL RESPONSE: SELECT ITEM 3.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: 03

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	03									

27.22.4.9.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.1.

27.22.4.9.4 SELECT ITEM (help request support)

27.22.4.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.4.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.4.3 Test purpose

To verify that the Terminal supports "help request" for the command Select Item.

27.22.4.9.4.4 Method of test

27.22.4.9.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.4.4.2 Procedure

Expected Sequence 4.1 (SELECT ITEM, help request, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 4.1.1	Help information available.
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	
5	USER → Terminal	Navigate in the items until "Item 1".	
6	USER → Terminal	Select the Help Request on "Item 1" Menu entry	
7	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 4.1.1	Help information required by the user.

PROACTIVE COMMAND: SELECT ITEM 4.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "80" help information available

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Item
- Identifier of item: 03
- Text string of item: "Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	80	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 4.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "80"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Help information required by the user

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	80	82	02	82	81	83	01	13
	90	01	01									

27.22.4.9.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.1.

27.22.4.9.5 SELECT ITEM (icons support)

27.22.4.9.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.5.2 Conformance requirement

Same as clause 27.22.4.9.1.2 and TS 102 223 [1], clauses 8.31 and 8.32.

27.22.4.9.5.3 Test purpose

To verify that the Terminal displays icons with the command Select Item.

27.22.4.9.5.4 Method of test

27.22.4.9.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.5.4.2 Procedure

Expected Sequence 5.1A (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 5.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify icons are displayed in the alpha identifier and in the 3 items.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 5.1.1 A	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 5.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Item
- Identifier of item: 03
- Text string of item: "Item 3"

Icon Identifier:
- Icon qualifier: "01" (icon is not self-explanatory)
- Icon Identifier: record 1 in $EF_{(IMG)}$

Item icon identifier list:
- Icon qualifier: "01" (icon is not self-explanatory)
- Icon Identifier: record 5 in $EF_{(IMG)}$, record 5 in $EF_{(IMG),}$ record 5 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	3E	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	9E	02	01	01	9F	04
	01	05	05	05								

TERMINAL RESPONSE: SELECT ITEM 5.1.1A

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 5.1B (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 5.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify that either for the header or for each of the items no icon is displayed.
5	USER → Terminal	Navigate in the items, then select "Item 1" under the header "Toolkit Select".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 5.1.1 B	Command performed successfully, but requested icon could not be displayed.

TERMINAL RESPONSE: SELECT ITEM 5.1.1B

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully but requested icon could not be displayed

Item identifier
- Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	04
	90	01	01									

Expected Sequence 5.2A (SELECT ITEM, BASIC ICON SELF EXPLANATORY, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 5.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 5.2.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify icons are displayed without text as alpha id and for the all 3 items.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 5.2.1 A	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 5.2.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Item
- Identifier of item: 03
- Text string of item: "Item 3"

Icon Identifier:
- Icon qualifier: "00" (icon is self-explanatory)
- Icon Identifier: record 1 in $EF_{(IMG)}$

Item icon identifier list:
- Icon qualifier: "00" (icon is self-explanatory)
- Icon Identifier: record 5 in $EF_{(IMG)}$, record 5 in $EF_{(IMG)}$, record 5 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	3E	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	9E	02	00	01	9F	04
	00	05	05	05								

TERMINAL RESPONSE: SELECT ITEM 5.2.1A

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 5.2B (SELECT ITEM, BASIC ICON SELF EXPLANATORY, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 5.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 5.2.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify that either for the header or for each of the items no icon is displayed.
5	USER → Terminal	Navigate in the items, then select "Item 1" under the header 'Toolkit Select'.	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 5.2.1B	Command performed successfully but requested icon could not be displayed.

TERMINAL RESPONSE: SELECT ITEM 5.2.1B

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully but requested icon could not be displayed

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	04
	90	01	01									

27.22.4.9.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 5.1A to 5.2B.

27.22.4.9.6 SELECT ITEM (presentation style)

27.22.4.9.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.6.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.6.3 Test purpose

To verify that the Terminal supports the "presentation style" with the command Select Item.

27.22.4.9.6.4 Method of test

27.22.4.9.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.6.4.2 Procedure

Expected Sequence 6.1 (SELECT ITEM, PRESENTATION AS A CHOICE OF NAVIGATION OPTIONS, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 6.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify if presentation style appears.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 6.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 6.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "03" (presentation as a choice of navigation options)

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select"

Item
Identifier of item: 01
Text string of item: "Item 1"
Item
Identifier of item: 02
Text string of item: "Item 2"
Item
Identifier of item: 03
Text string of item: "Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	03	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 6.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "03" (presentation as a choice of navigation options)

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	03	82	02	82	81	83	01	00
	90	01	01									

Expected Sequence 6.2 (SELECT ITEM, PRESENTATION AS A CHOICE OF DATA VALUES, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 6.2.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify if presentation style appears.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 6.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 6.2.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "01" (presentation as a choice of data values)

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select"

Item
Identifier of item: 01
Text string of item: "Item 1"
Item
Identifier of item: 02
Text string of item: "Item 2"
Item
Identifier of item: 03
Text string of item: "Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	01	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 6.2.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "01"(presentation as a choice of data values)

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	01	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 6.1 and 6.2.

27.22.4.9.7 SELECT ITEM (soft keys support)

27.22.4.9.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.7.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.7.3 Test purpose

To verify that the Terminal supports the "soft keys" with the command Select Item.

27.22.4.9.7.4 Method of test

27.22.4.9.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.7.4.2 Procedure

Expected Sequence 7.1 (SELECT ITEM, SELECTING USING SOFT KEYS PREFERRED, successful, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 7.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 7.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select".	
5	USER → Terminal	Navigate in the items, then select "Item 1".	Verify that we can choose an item through soft keys.
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 7.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 7.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "04" (selection using soft keys preferred)

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
Identifier of item: 02
Text string of item: "Item 2"

Coding:

BER-TLV:	D0	2B	81	03	01	24	04	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32			

TERMINAL RESPONSE: SELECT ITEM 7.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "04" (selection using soft keys preferred)

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	04	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 7.1.

27.22.4.9.8 SELECT ITEM (Support of "No response from user")

27.22.4.9.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.8.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

27.22.4.9.8.3 Test purpose

To verify that after a period of user inactivity the Terminal returns a "No response from user" result value in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.9.8.4 Method of test

27.22.4.9.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal Manufacturer shall have defined the "no response from user" period of time as declared in table A.2/4.

The UICC Simulator shall be set to that period of time.

27.22.4.9.8.4.2 Procedure

Expected Sequence 8.1 (SELECT ITEM, no response from user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 8.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 8.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "<TIME-OUT>".	
5	USER	Waiting and no completion	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 8.1.1	No response from user within 5 s after the end of that defined period of time.
7	USER	Check if the delay of TERMINAL RESPONSE is reasonable or not	

PROACTIVE COMMAND: SELECT ITEM 8.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "<TIME-OUT>"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Item
- Identifier of item: 03
- Text string of item: "Item 3"

Coding:

BER-TLV:	D0	30	81	03	01	24	00	82	02	81	82	85
	0A	3C	54	49	4D	45	2D	4F	55	54	3E	8F
	07	01	49	74	65	6D	20	31	8F	07	02	49
	74	65	6D	20	32	8F	07	03	49	74	65	6D
	20	33										

TERMINAL RESPONSE: SELECT ITEM 8.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: No response from user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	12

27.22.4.9.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 8.1.

27.22.4.9.9 SELECT ITEM (Support of Text Attribute)

27.22.4.9.9.1 SELECT ITEM (Support of Text Attribute - Left Alignment)

27.22.4.9.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.1.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.1.3 Test purpose

To verify that the Terminal displays text formatted according to the left alignment text attribute configuration within the command Select Item.

27.22.4.9.9.1.4 Method of test

27.22.4.9.9.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.1.4.2 Procedure

Expected Sequence 9.1 (SELECT ITEM, Text Attribute - Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.1.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with left alignment.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.1.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/10, no alignment change will take place.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.1.2

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 2"

Item
Identifier of item: 01
Text string of item: "Item 3"
Item
Identifier of item: 02
Text string of item: "Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.1.

27.22.4.9.9.2 SELECT ITEM (Support of Text Attribute - Center Alignment)

27.22.4.9.9.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.2.3 Test purpose

To verify that the Terminal displays text formatted according to the center alignment text attribute configuration within the command Select Item.

27.22.4.9.9.2.4 Method of test

27.22.4.9.9.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.2.4.2 Procedure

Expected Sequence 9.2 (SELECT ITEM, Text Attribute - Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.2.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with center alignment.
5	USER → Terminal	Navigate in the items, then select "Item 1".	

Step	Direction	MESSAGE / Action	Comments
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.2.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.2.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.2.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/10, no alignment change will take place.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.2.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	01	B4	D1	08	00	06	01	B4	00
	06	01	B4									

PROACTIVE COMMAND: SELECT ITEM 9.2.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 2"

Item
- Identifier of item: 01
- Text string of item: "Item 3"

Item
- Identifier of item: 02
- Text string of item: "Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.2.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.2.

27.22.4.9.9.3 SELECT ITEM (Support of Text Attribute - Right Alignment)

27.22.4.9.9.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.3.3 Test purpose

To verify that the Terminal displays text formatted according to the right alignment text attribute configuration within the command Select Item.

27.22.4.9.9.3.4 Method of test

27.22.4.9.9.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.3.4.2 Procedure

Expected Sequence 9.3 (SELECT ITEM, Text Attribute - Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.3.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with right alignment.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.3.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.3.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.3.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/10, no alignment change will take place.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.3.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.3.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	02	B4	D1	08	00	06	02	B4	00
	06	02	B4									

PROACTIVE COMMAND: SELECT ITEM 9.3.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 2"

Item
Identifier of item: 01
Text string of item: "Item 3"
Item
Identifier of item: 02

Text string of item: "Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.3.

27.22.4.9.9.4 SELECT ITEM (Support of Text Attribute - Large Font Size)

27.22.4.9.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.4.3 Test purpose

To verify that the Terminal displays text formatted according to the large font size text attribute configuration within the command Select Item.

27.22.4.9.9.4.4 Method of test

27.22.4.9.9.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.4.4.2 Procedure

Expected Sequence 9.4 (SELECT ITEM, Text Attribute - Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.4.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with large font size.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.4.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.4.1	
16	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with large font size.
17	USER → Terminal	Navigate in the items, then select "Item 1".	
18	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.4.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.4.3	
22	Terminal → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with normal font size.

Step	Direction	MESSAGE / Action	Comments
23	USER → Terminal	Navigate in the items, then select "Item 5".	
24	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.4.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.4.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	04	B4	D1	08	00	06	04	B4	00
	06	04	B4									

PROACTIVE COMMAND: SELECT ITEM 9.4.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 2"

Item
- Identifier of item: 01
- Text string of item: "Item 3"

Item
- Identifier of item: 02
- Text string of item: "Item 4"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.4.3

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 3"

Item
Identifier of item: 01
Text string of item: "Item 5"
Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.4.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.4.

27.22.4.9.9.5 SELECT ITEM (Support of Text Attribute - Small Font Size)

27.22.4.9.9.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.5.3 Test purpose

To verify that the Terminal displays text formatted according to the small font size text attribute configuration within the command Select Item.

27.22.4.9.9.5.4 Method of test

27.22.4.9.9.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.5.4.2 Procedure

Expected Sequence 9.5 (SELECT ITEM, Text Attribute - Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.5.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with small font size.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.5.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.5.1	
16	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with small font size.
17	USER → Terminal	Navigate in the items, then select "Item 1".	
18	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	Command performed successfully.

Step	Direction	MESSAGE / Action	Comments
19	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.5.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.5.3	
22	Terminal → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with normal font size.
23	USER → Terminal	Navigate in the items, then select "Item 5".	
24	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.5.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.5.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	08	B4	D1	08	00	06	08	B4	00
	06	08	B4									

PROACTIVE COMMAND: SELECT ITEM 9.5.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 2"

Item
- Identifier of item: 01
- Text string of item: "Item 3"

Item
- Identifier of item: 02
- Text string of item: "Item 4"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.5.3

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 3"

Item
Identifier of item: 01
Text string of item: "Item 5"
Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.5.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.5.

27.22.4.9.9.6 SELECT ITEM (Support of Text Attribute - Bold On)

27.22.4.9.9.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.6.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.6.3 Test purpose

To verify that the Terminal displays text formatted according to the bold text attribute configuration within the command Select Item.

27.22.4.9.9.6.4 Method of test

27.22.4.9.9.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.6.4.2 Procedure

Expected Sequence 9.6 (SELECT ITEM, Text Attribute - Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.6.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with bold on.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.6.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with bold off.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.6.1	
16	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with bold on.
17	USER → Terminal	Navigate in the items, then select "Item 1".	
18	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.6.3	
20	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
21	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.6.3	
22	Terminal → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with bold off.
23	USER → Terminal	Navigate in the items, then select "Item 5".	
24	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.6.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.6.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	10	B4	D1	08	00	06	10	B4	00
	06	10	B4									

PROACTIVE COMMAND: SELECT ITEM 9.6.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 2"

Item
- Identifier of item: 01
- Text string of item: "Item 3"

Item
- Identifier of item: 02
- Text string of item: "Item 4"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.6.3

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 3"

Item
Identifier of item: 01
Text string of item: "Item 5"
Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.6.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.6.

27.22.4.9.9.7 SELECT ITEM (Support of Text Attribute - Italic On)

27.22.4.9.9.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.7.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.7.3 Test purpose

To verify that the Terminal displays text formatted according to the italic text attribute configuration within the command Select Item.

27.22.4.9.9.7.4 Method of test

27.22.4.9.9.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.7.4.2 Procedure

Expected Sequence 9.7 (SELECT ITEM, Text Attribute - Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.7.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with italic on.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.7.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with italic off.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.7.1	
16	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with italic on.
17	USER → Terminal	Navigate in the items, then select "Item 1".	
18	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.7.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.7.3	
22	Terminal → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with italic off.
23	USER → Terminal	Navigate in the items, then select "Item 5".	
24	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.7.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.7.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	20	B4	D1	08	00	06	20	B4	00
	06	20	B4									

PROACTIVE COMMAND: SELECT ITEM 9.7.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 2"

Item
Identifier of item: 01
Text string of item: "Item 3"
Item
Identifier of item: 02
Text string of item: "Item 4"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.7.3

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 3"

Item
Identifier of item: 01
Text string of item: "Item 5"

Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.7.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.7.

27.22.4.9.9.8 SELECT ITEM (Support of Text Attribute - Underline On)

27.22.4.9.9.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.8.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.8.3 Test purpose

To verify that the Terminal displays text formatted according to the underline text attribute configuration within the command Select Item.

27.22.4.9.9.8.4 Method of test

27.22.4.9.9.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.8.4.2 Procedure

Expected Sequence 9.8 (SELECT ITEM, Text Attribute - Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.8.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with underline on.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.8.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with underline off.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.8.1	
16	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with underline on.
17	USER → Terminal	Navigate in the items, then select "Item 1".	
18	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.8.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.8.3	
22	Terminal → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with underline off.
23	USER → Terminal	Navigate in the items, then select "Item 5".	
24	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.8.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.8.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	40	B4	D1	08	00	06	40	B4	00
	06	40	B4									

PROACTIVE COMMAND: SELECT ITEM 9.8.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 2"

Item
Identifier of item: 01
Text string of item: "Item 3"
Item
Identifier of item: 02
Text string of item: "Item 4"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.8.3

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 3"

Item
Identifier of item: 01
Text string of item: "Item 5"

Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.8.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.8.

27.22.4.9.9.9 SELECT ITEM (Support of Text Attribute - Strikethrough On)

27.22.4.9.9.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.9.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.9.3 Test purpose

To verify that the Terminal displays text formatted according to the strikethrough text attribute configuration within the command Select Item.

27.22.4.9.9.9.4 Method of test

27.22.4.9.9.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.9.4.2 Procedure

Expected Sequence 9.9 (SELECT ITEM, Text Attribute - Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.9.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with strikethrough on.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.9.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with strikethrough off.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.9.1	
16	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with strikethrough on.
17	USER → Terminal	Navigate in the items, then select "Item 1".	
18	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.9.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.9.3	
22	Terminal → USER	Display items of "Item 5", "Item 6" under the header of "Toolkit Select 3".	Verify the text attribute of the alpha id and each item are displayed with strikethrough off.
23	USER → Terminal	Navigate in the items, then select "Item 5".	
24	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.9.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.9.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
- Text Attribute List:
- Item #1
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Colour: Dark Green Foreground, Bright Yellow Background

- Item #2
- Formatting position: 0
- Formatting length: 6
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	80	B4	D1	08	00	06	80	B4	00
	06	80	B4									

PROACTIVE COMMAND: SELECT ITEM 9.9.2

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 2"

Item
Identifier of item: 01
Text string of item: "Item 3"
Item
Identifier of item: 02
Text string of item: "Item 4"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.9.3

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 3"

Item
Identifier of item: 01
Text string of item: "Item 5"

Item
Identifier of item: 02
Text string of item: "Item 6"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	33	8F	07	01	49	74	65	6D
	20	35	8F	07	02	49	74	65	6D	20	36	

TERMINAL RESPONSE: SELECT ITEM 9.9.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.9.

27.22.4.9.10 SELECT ITEM (Support of Text Attribute - Foreground and Background Colour)

27.22.4.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.10.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- TS 102 223 [1], clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.10.3 Test purpose

To verify that the Terminal displays text formatted according to the foreground and background colour text attribute configuration within the command Select Item.

27.22.4.9.10.4 Method of test

27.22.4.9.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.9.10.4.2 Procedure

Expected Sequence 9.10 (SELECT ITEM, Text Attribute - Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.10.1	
4	Terminal → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select 1".	Verify the text attribute of the alpha id and each item are displayed with foreground and background colour according to the configuration.
5	USER → Terminal	Navigate in the items, then select "Item 1".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.10.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 9.10.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 9.10.2	
10	Terminal → USER	Display items of "Item 3", "Item 4" under the header of "Toolkit Select 2".	Verify the text attribute of the alpha id and each item are displayed with Terminal's default foreground and background colour.
11	USER → Terminal	Navigate in the items, then select "Item 3".	
12	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 9.10.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 9.10.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "Toolkit Select 1"

Item
- Identifier of item: 01
- Text string of item: "Item 1"

Item
- Identifier of item: 02
- Text string of item: "Item 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Item Text Attribute List
Text Attribute List:
Item #1
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Item #2
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	31	8F	07	01	49	74	65	6D
	20	31	8F	07	02	49	74	65	6D	20	32	D0
	04	00	10	00	B4	D1	08	00	06	00	B4	00
	06	00	B4									

PROACTIVE COMMAND: SELECT ITEM 9.10.2

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "Toolkit Select 2"

Item
Identifier of item: 01
Text string of item: "Item 3"
Item
Identifier of item: 02
Text string of item: "Item 4"

Coding:

BER-TLV:	D0	2D	81	03	01	24	00	82	02	81	82	85
	10	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	20	32	8F	07	01	49	74	65	6D
	20	33	8F	07	02	49	74	65	6D	20	34	

TERMINAL RESPONSE: SELECT ITEM 9.10.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

27.22.4.9.9.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 9.10.

27.22.4.9.10 SELECT ITEM (UCS2 display in Cyrillic)

27.22.4.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.10.2 Conformance requirement

The Terminal shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 102 223 [1], clauses 5, 6.4.9, 6.6.8, 6.8, 8.6, 8.7, 8.2, 8.9, 9.4 and 10.

27.22.4.9.10.3 Test purpose

To verify that the Terminal correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the Terminal allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the Terminal returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the Terminal returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.10.4 Method of test

27.22.4.9.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.10.4.2 Procedure

Expected Sequence 10.1 (SELECT ITEM with UCS2 in Cyrillic characters, 0x80 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 10.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 10.1.1	
4	Terminal → USER	Display items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2" and "ЗДРАВСТВУЙТЕ3" under the header of "ЗДРАВСТВУЙТЕ".	"ЗДРАВСТВУЙТЕ": "Hello" in Russian.
5	USER → Terminal	Select "ЗДРАВСТВУЙТЕ2"	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 10.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 10.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "ЗДРАВСТВУЙТЕ"

Item
- Identifier of item: 1
- Text string of item: "ЗДРАВСТВУЙТЕ1"

Item
- Identifier of item: 2
- Text string of item: "ЗДРАВСТВУЙТЕ2"

Item
- Identifier of item: 3
- Text string of item: "ЗДРАВСТВУЙТЕ3"

Coding:

BER-TLV:	D0	7E	81	03	01	24	00	82	02	81	82	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8F	1C	01	80	04	17	04	14	04	20
	04	10	04	12	04	21	04	22	04	12	04	23
	04	19	04	22	04	15	00	31	8F	1C	02	80
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15
	00	32	8F	1C	03	80	04	17	04	14	04	20
	04	10	04	12	04	21	04	22	04	12	04	23
	04	19	04	22	04	15	00	33				

TERMINAL RESPONSE: SELECT ITEM 10.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 10.2 (SELECT ITEM with UCS2 in Cyrillic characters, 0x81 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 10.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 10.2.1	
4	Terminal → USER	Display items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2" and "ЗДРАВСТВУЙТЕ3" under the header of "ЗДРАВСТВУЙТЕ".	"ЗДРАВСТВУЙТЕ": "Hello" in Russian.
5	USER → Terminal	Select "ЗДРАВСТВУЙТЕ2".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 10.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 10.2.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "ЗДРАВСТВУЙТЕ"

Item
Identifier of item: 1
Text string of item: "ЗДРАВСТВУЙТЕ1"

Item
Identifier of item: 2
Text string of item: "ЗДРАВСТВУЙТЕ2"

Item

Identifier of item: 3
Text string of item: "ЗДРАВСТВУЙТЕ3"

Coding:

BER-TLV:	D0	53	81	03	01	24	00	82	02	81	82	85
	0F	81	0C	08	97	94	A0	90	92	A1	A2	92
	A3	99	A2	95	8F	11	01	81	0D	08	97	94
	A0	90	92	A1	A2	92	A3	99	A2	95	31	8F
	11	02	81	0D	08	97	94	A0	90	92	A1	A2
	92	A3	99	A2	95	32	8F	11	03	81	0D	08
	97	94	A0	90	92	A1	A2	92	A3	99	A2	95
	33											

TERMINAL RESPONSE: SELECT ITEM 10.2.1

Logically:

Command details

Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities

Source device: Terminal
Destination device: UICC

Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 10.3 (SELECT ITEM with UCS2 in Cyrillic characters, 0x82 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 10.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 10.3.1	
4	Terminal → USER	Display items of "ЗДРАВСТВУЙТЕ1", "ЗДРАВСТВУЙТЕ2" and "ЗДРАВСТВУЙТЕ3" under the header of "ЗДРАВСТВУЙТЕ".	"ЗДРАВСТВУЙТЕ ": "Hello" in Russian.
5	USER → Terminal	Select "ЗДРАВСТВУЙТЕ2"	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 10.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 10.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "ЗДРАВСТВУЙТЕ"

Item
Identifier of item: 1
Text string of item: "ЗДРАВСТВУЙТЕ1"
Item
Identifier of item: 2
Text string of item: "ЗДРАВСТВУЙТЕ2"
Item
Identifier of item: 3
Text string of item: "ЗДРАВСТВУЙТЕ3"

Coding:

BER-TLV:	D0	57	81	03	01	24	00	82	02	81	82	85
	10	82	0C	04	10	87	84	90	80	82	91	92
	82	93	89	92	85	8F	12	01	82	0D	04	10
	87	84	90	80	82	91	92	82	93	89	92	85
	31	8F	12	02	82	0D	04	10	87	84	90	80
	82	91	92	82	93	89	92	85	32	8F	12	03
	82	0D	04	10	87	84	90	80	82	91	92	82
	93	89	92	85	33							

TERMINAL RESPONSE: SELECT ITEM 10.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 10.1 to 10.3.

27.22.4.9.11 SELECT ITEM (UCS2 display in Chinese)

27.22.4.9.11.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.11.2 Conformance requirement

The Terminal shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 102 223 [1], clauses 5, 6.4.9, 6.6.8, 6.8, 8.6, 8.7, 8.2, 8.9, 9.4 and 10.

27.22.4.9.11.3 Test purpose

To verify that the Terminal correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the Terminal allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the Terminal returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the Terminal returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.11.4 Method of test

27.22.4.9.11.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.11.4.2 Procedure

Expected Sequence 11.1 (SELECT ITEM with UCS2 in Chinese Characters, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 11.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 11.1.1	
4	Terminal → USER	Display items of "项目一", "项目二", "项目三" and "项目四" under the header of "工具箱选择".	"工具箱选择": "Toolkit Select" in Chinese. "项目一": "Item 1" in Chinese. "项目二": "Item 2" in Chinese. "项目三": "Item 3" in Chinese. "项目四": "Item 4" in Chinese.
5	USER → Terminal	Select "项目二".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 11.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 11.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "工具箱选择"

Item
- Identifier of item: 1
- Text string of item: "项目一"

Item
- Identifier of item: 2
- Text string of item: "项目二"

Item
- Identifier of item: 3
- Text string of item: "项目三"

Item
- Identifier of item: 4
- Text string of item: "项目四"

Coding:

BER-TLV:	D0	3E	81	03	01	24	00	82	02	81	82	85
	0B	80	5D	E5	51	77	7B	B1	90	09	62	E9
	8F	08	01	80	98	79	76	EE	4E	00	8F	08
	02	80	98	79	76	EE	4E	8C	8F	08	03	80
	98	79	76	EE	4E	09	8F	08	04	80	98	79
	76	EE	56	DB								

TERMINAL RESPONSE: SELECT ITEM 11.1.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Item identifier
- Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.11.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 11.1.

27.22.4.9.12 SELECT ITEM (UCS2 display in Katakana)

27.22.4.9.12.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.12.2 Conformance requirement

The Terminal shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 102 223 [1], clauses 5, 6.4.9, 6.6.8, 6.8, 8.6, 8.7, 8.2, 8.9, 9.4 and 10.

27.22.4.9.12.3 Test purpose

To verify that the Terminal correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the Terminal allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the Terminal returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the Terminal returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

27.22.4.9.12.4 Method of test

27.22.4.9.12.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.9.12.4.2 Procedure

Expected Sequence 12.1 (SELECT ITEM with UCS2 in Katakana characters, 0x80 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 12.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 12.1.1	
4	Terminal → USER	Display items of "80ルl1", "80ルl2" and "80ルl3" under the header of "80ルl0".	Items use characters in Katakana.
5	USER → Terminal	Select "80ルl2".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 12.1.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 12.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "80ルの"

Item
Identifier of item: 1
Text string of item: "80ルー"
Item
Identifier of item: 2
Text string of item: "80ルニ"
Item
Identifier of item: 3
Text string of item: "80ルサ"

Coding:

BER-TLV:	D0	38	81	03	01	24	00	82	02	81	82	85
	09	80	00	38	00	30	30	EB	00	30	8F	0A
	01	80	00	38	00	30	30	EB	00	31	8F	0A
	02	80	00	38	00	30	30	EB	00	32	8F	0A
	03	80	00	38	00	30	30	EB	00	33		

TERMINAL RESPONSE: SELECT ITEM 12.1.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 12.2 (SELECT ITEM with UCS2 in Katakana characters, 0x81 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 12.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 12.2.1	
4	Terminal → USER	Display items of "81ルル1", "81ルル2" and "81ルル3" under the header of "81ルル0".	Items use characters in Katakana.
5	USER → Terminal	Select "81ルル2".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 12.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 12.2.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal
- Alpha identifier: "81ルル0"

Item
- Identifier of item: 1
- Text string of item: "81ルル1"

Item
- Identifier of item: 2
- Text string of item: "81ルル2"

Item
- Identifier of item: 3
- Text string of item: "81ルル3"

Coding:

BER-TLV:	D0	30	81	03	01	24	00	82	02	81	82	85
	07	81	04	61	38	31	EB	30	8F	08	01	81
	04	61	38	31	EB	31	8F	08	02	81	04	61
	38	31	EB	32	8F	08	03	81	04	61	38	31
	EB	33										

TERMINAL RESPONSE: SELECT ITEM 12.2.1

Logically:

Command details
- Command number: 1
- Command type: SELECT ITEM
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

Expected Sequence 12.3 (SELECT ITEM with UCS2 in Katakana characters, 0x82 UCS2 coding, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SELECT ITEM 12.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SELECT ITEM 12.3.1	
4	Terminal → USER	Display items of "82ル1", "82ル2" and "82ル3" under the header of "82ル0".	Items use characters in Katakana.
5	USER → Terminal	Select "82ル2".	
6	Terminal → UICC	TERMINAL RESPONSE: SELECT ITEM 12.2.1	Command performed successfully.

PROACTIVE COMMAND: SELECT ITEM 12.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal
Alpha identifier: "82ル0"

Item
Identifier of item: 1
Text string of item: "82ル1"
Item
Identifier of item: 2
Text string of item: "82ル2"
Item
Identifier of item: 3
Text string of item: "82ル3"

Coding:

BER-TLV:	D0	34	81	03	01	24	00	82	02	81	82	85
	08	82	04	30	A0	38	32	CB	30	8F	09	01
	82	04	30	A0	38	32	CB	31	8F	09	02	82
	04	30	A0	38	32	CB	32	8F	09	03	82	04
	30	A0	38	32	CB	33						

TERMINAL RESPONSE: SELECT ITEM 12.3.1

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Item identifier
Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

27.22.4.9.12.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 12.1 to 12.3.

27.22.4.10 SEND SHORT MESSAGE

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.11 Void

27.22.4.12 Void

27.22.4.13 SET UP CALL

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.14 POLLING OFF

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.15 PROVIDE LOCAL INFORMATION

27.22.4.15.1 Definition and applicability

See clause 3.2.2.

27.22.4.15.2 Conformance requirement

The Terminal shall support the PROVIDE LOCAL INFORMATION facility as defined in:

- TS 102 223 [1], clause 6.4.15.

27.22.4.15.3 Test purpose

To verify that the Terminal returns the following requested local information within a TERMINAL RESPONSE:

- Location Information according to current NAA;
- the IMEI of the Terminal;
- the Network Measurement results according to current NAA;
- the current date, time and time zone;
- the current language setting;
- the Access Technology;
- the ESN of the terminal;
- the IMEISV of the terminal;
- the Search Mode;
- the Charge State of the Battery.

If the local information is stored in the Terminal; otherwise, sends the correct error code to the UICC in the TERMINAL RESPONSE.

27.22.4.15.4 Method of tests

27.22.4.15.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as the Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.15.4.2 Procedure

Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Location Information according to current NAA)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.2 (PROVIDE LOCAL INFORMATION, IMEI of the Terminal)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PROVIDE LOCAL INFORMATION 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1	
4	Terminal → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1	Command performed successfully, IMEI but spare digit shall be zero when transmitted by the Terminal

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "01" IMEI of the Terminal

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	26	01	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "01" IMEI of the Terminal

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

IMEI
IMEI of the Terminal: The IMEI of the Terminal

The result coding depends on the Terminal IMEI value as declared in table A.1/23

Coding:

BER-TLV:	81	03	01	26	01	82	02	82	81	83	01	00
	94	08	XX	XX	XX	XX	XX	XX	XX	XX		

As an example, if the IMEI of the Terminal is "123456789012345" then
XX XX XX XX XX XX XX XX = 1A 32 54 76 98 10 32 04. For further details see also TS 124 008 [5], clause 10.5.1.

Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network Measurement results according to current NAA)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.4 (PROVIDE LOCAL INFORMATION, Date, Time, Time Zone)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PROVIDE LOCAL INFORMATION 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.4.1	
4	Terminal → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.4.1	Command performed successfully.

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.4.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "03" Date Time and Time Zone

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	26	03	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.4.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "03" Date Time and Time Zone

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully
Date-Time and Time Zone: date and time set by the user: 7th May 2002, 14h 08mn 17s, no time zone information, as an example in TLV

Coding:

BER-TLV:	81	03	01	26	03	82	02	82	81	83	01	00
	A6	07	20	50	70	41	80	71	FF			

Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PROVIDE LOCAL INFORMATION 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.5.1	
4	Terminal → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.5.1	Command performed successfully.

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.5.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "04" Language setting

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	26	04	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.5.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "04" Language setting

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully
- Language English ("en") as an example for TLV

Coding:

BER-TLV:	81	03	01	26	04	82	02	82	81	83	01	00
	AD	02	65	6E								

Expected Sequence 1.6 Void

Expected Sequence 1.7 (PROVIDE LOCAL INFORMATION, Access Technology)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.8 (PROVIDE LOCAL INFORMATION, ESN of the terminal)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PROVIDE LOCAL INFORMATION 1.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.8.1	
4	Terminal → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.8.1	Command performed successfully, IMEISV.

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.8.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "07" ESN of the Terminal

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	26	07	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.8.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "07" ESN of the Terminal

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

ESN
- ESN of the Terminal: The ESN of the Terminal

The ESN is coded as in TIA/EIA-41-D [8].

The result coding depends on the Terminal ESN value as declared in table A.1/25

Coding:

BER-TLV:	81	03	01	26	07	82	02	82	81	83	01	00
	C6	04	XX	XX	XX	XX						

Expected Sequence 1.9 (PROVIDE LOCAL INFORMATION, IMEISV of the terminal)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PROVIDE LOCAL INFORMATION 1.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1	
4	Terminal → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1	Command performed successfully, IMEISV.

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "08" IMEISV of the Terminal

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	26	08	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "08" IMEISV of the Terminal

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

IMEISV
- IMEISV of the Terminal: The IMEISV of the Terminal

The result coding depends on the Terminal IMEISV value as declared in table A.2/24.

Coding:

BER-TLV:	81	03	01	26	08	82	02	82	81	83	01	00
	E2	09	XX	XX	XX	XX	XX	XX	XX	XX	XX	

As an example, if the IMEISV of the Terminal is "1234567890123456" then
XX XX XX XX XX XX XX XX XX = 13 32 54 76 98 10 32 54 F6. For further details see also TS 124 008 [5].

Expected Sequence 1.10 (PROVIDE LOCAL INFORMATION, Search Mode)

The test method is not defined in the present document as it depends on a present NAA.

Expected Sequence 1.11 (PROVIDE LOCAL INFORMATION, charge state of the battery)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PROVIDE LOCAL INFORMATION 1.11.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.11.1	
4	Terminal → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.11.1	Command performed successfully.

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.11.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "0A" Charge State of the Battery

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	26	0A	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.11.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "0A" Charge State of the Battery

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully
- Battery State: XX where $0 \leq XX \leq 4$

Coding:

BER-TLV:	81	03	01	26	0A	82	02	82	81	83	01	00
	E3	01	XX									

Expected Sequence 1.12 Void

27.22.4.15.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.12.

27.22.4.16 SET UP EVENT LIST

27.22.4.16.1 SET UP EVENT LIST (normal)

27.22.4.16.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.16.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: Set Up Event List facility as defined in:

- TS 102 223 [1], clauses 6.4.16 and 6.6.16.

Additionally the Terminal shall support the Event Download: Call Connect and the Event Download: Call Disconnected mechanism as defined in:

- TS 102 223 [1], clauses 11.2, 11.2.1, 11.2.2, 11.3, 11.3.1 and 11.3.2.

27.22.4.16.1.3 Test purpose

To verify that the Terminal accepts a list of events that it shall monitor the current list of events supplied by the UICC, is able to have this current list of events replaced and is able to have the list of events removed.

To verify that when the Terminal has successfully accepted or removed the list of events, it shall send TERMINAL RESPONSE (OK) to the UICC and when the Terminal is not able to successfully accept or remove the list of events, it shall send TERMINAL RESPONSE (Command beyond Terminal's capabilities).

27.22.4.16.1.4 Method of test

27.22.4.16.1.4.1 Initial conditions

The Terminal is connected to both the UICC Simulator.

The elementary files are coded as Card Application Toolkit default with the following exceptions.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.16.1.4.2 Procedure

Expected Sequence 1.1 (SET UP EVENT LIST, User Activity)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	User shall press any key	
7	Terminal → UICC	ENVELOPE: EVENT DOWNLOAD USER ACTIVITY 1.1.1	User Activity.
8	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: UICC
- Destination device: Terminal

Event list
- Event 1: User Activity

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	04										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE: EVENT DOWNLOAD USER ACTIVITY 1.1.1

Logically:

Event list
Event 1: User Activity

Device identities
Source device: Terminal
Destination device: UICC

Coding:

BER-TLV:	D6	0A	99	01	04	82	02	82	81			

Expected Sequence 1.2 (SET UP EVENT LIST, Replace Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	Idle Screen Available and Language Selection.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
5	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2	Language Selection.
8	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2	
9	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
10	USER → Terminal	User shall press any key	
11	USER → Terminal	User shall change the terminal's language setting	
12	Terminal → UICC	ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2	Language Selection.
13	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: Idle Screen Available
Event 2: Language Selection

Coding:

BER-TLV:	D0	0D	81	03	01	05	00	82	02	81	82	99
	02	05	07									

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: Language Selection

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	07										

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE: EVENT DOWNLOAD LANGUAGE SELECTION 1.2.2

Logically:

Event list
Event 1: Language Selection

Device identities
Source device: Terminal
Destination device: UICC

Language
Language 'se'(Spanish) → 73 65
or 'de'→64 65 (German) for instance: choose a language different from the one initially set on the Terminal to check the proper execution
of the command

Coding:

BER-TLV:	D6	0E	99	01	02	82	02	83	81	9C	01	00
	AD	02	73	65								

Expected Sequence 1.3 (SET UP EVENT LIST, Remove Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1	Language Selection.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1	
5	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2	Remove Event.
8	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2	
9	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
10	USER → Terminal	User shall change the terminal's language setting	
11	Terminal → UICC	No ENVELOPE: EVENT DOWNLOAD (language selection) sent	

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: Language Selection

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	07										

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Terminal
Event list: Empty

Coding:

BER-TLV:	D0	0B	81	03	01	05	00	82	02	81	82	99
	00											

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (SET UP EVENT LIST, Remove Event on Terminal Power Cycle)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1	Language Selection.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	User → Terminal	Power off Terminal	
7	User → Terminal	Power on Terminal	
8	USER → Terminal	User shall change the terminal's language setting	
9	Terminal → UICC	No ENVELOPE: EVENT DOWNLOAD (language selection) sent	

PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: Language Selection

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	07										

TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

27.22.4.16.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.4.

27.22.4.17 PERFORM CARD APDU

27.22.4.17.1 PERFORM CARD APDU (normal)

27.22.4.17.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.17.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: Perform Card APDU facility as defined in:

- TS 102 223 [1], clauses 6.1, 5.2, 6.4.17, 6.6.17, 6.8, 8.6, 8.7, 8.35, 8.36 and 8.12.9.

Additionally the Terminal shall support multiple card operation as defined in:

- TS 102 223 [1], clauses 6.4.19, 6.6.19, 6.4.18 and 6.6.18.

27.22.4.17.1.3 Test purpose

To verify that the Terminal sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive UICC command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

The Terminal-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for Terminals with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this particular case a special Test-SIM (TestSIM) with T=0 protocol is chosen as additional card for the additional Terminal card reader (for coding of the TestSIM see annex A).

27.22.4.17.1.4 Method of test

27.22.4.17.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The TestSIM is inserted in the additional Terminal card reader.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the Terminal supports a detachable card reader, the card reader shall be attached to the Terminal.

The elementary files of the TestSIM are coded as defined in annex A. Another card with different parameters may be used as TestSIM to execute these tests. In this case the UICC Simulator shall take into account the corresponding response data.

27.22.4.17.1.4.2 Procedure

Expected Sequence 1.1 (PERFORM CARD APDU, card reader 1, additional card inserted, Select MF and Get Response)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 1.1.1	Power on card reader 1.
4	Terminal → SIM2	RESET CARD	Perform electrical initialization.
5	SIM2 → Terminal	ANSWER TO RESET 1.1	ATR
6	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	ATR
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	Select Masterfile.
10	Terminal → SIM2	C-APDU: SELECT 1.1	Select Masterfile.
11	SIM2 → Terminal	R-APDU: SELECT 1.1	Command performed successfully - length '1B' of response data.
12	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.2	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.2	Get Response with length '1B'.
16	Terminal → SIM2	C-APDU: GET RESPONSE 1.1	Get Response with length '1B'.
17	SIM2 → Terminal	R-APDU: GET RESPONSE 1.1	Response data with length '1B'.
18	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2	Response data with length '1B'.

PROACTIVE COMMAND POWER ON CARD 1.1.1

Logically:

Command details
Command number: 1
Command type: POWER ON CARD
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

ANSWER TO RESET 1.1

Logically:

TS (Initial character): '3B'
T0 (Format character): '86' (Following interface characters: TD(1), number of historical characters: 6)
TD1: '00' (Following interface characters: none, Transfer protocol: T=0)
T1: 91
T2: 99
T3: 00
T4: 12
T5: C1
T6: 00

Coding:

Coding:	3B	86	00	91	99	00	12	C1	00

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details
Command number: 1
Command type: POWER ON CARD
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Card ATR
TS (Initial character): '3B'
T0 (Format character): '86' (Following interface characters: TD(1), number of historical characters: 6)
TD1: '00' (Following interface characters: none, Transfer protocol: T=0)
T1: 91
T2: 99
T3: 00
T4: 12
T5: C1
T6: 00

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	09	3B	86	00	91	99	00	12	C1	00	

PROACTIVE COMMAND PERFORM CARD APDU 1.1.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card Reader 1

C-APDU
- Class: 'A0'
- Instruction: SELECT
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '02'
- Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	3F	00				

C-APDU: SELECT 1.1

Logically:

C-APDU
- Class: 'A0'
- Instruction: SELECT
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '02'
- Data: Master File

Coding:

Coding:	A0	A4	00	00	02	3F	00

R-APDU: SELECT 1.1

Logically:

Status Words
- SW1 / SW2: Command performed successfully - length '1B' of response data

Coding:

Coding:	9F	1B

TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

R-APDU
Status Words
SW1 / SW2: Command performed successfully - length '1B' of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	1B								

PROACTIVE COMMAND PERFORM CARD APDU 1.1.2

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Card Reader 1

C-APDU
Class: 'A0'
Instruction: GET RESPONSE
P1 parameter: '00'
P2 parameter: '00'
Le: '1B'

Coding:

BER-TLV:	D0	10	81	03	01	30	00	82	02	81	11	A2
	05	A0	C0	00	00	1B						

C-APDU: GET RESPONSE 1.1

Logically:

C-APDU
Class: 'A0'
Instruction: GET RESPONSE
P1 parameter: '00'
P2 parameter: '00'
Le: '1B'

Coding:

Coding:	A0	C0	00	00	1B

R-APDU: GET RESPONSE 1.1

Logically:

R-APDU data
- RFU: '00 00'
- Not allocated memory: '653 bytes'
- File ID: Master File
- Type of file: MF
- RFU: 00 00 22 FF 01'
- Length of following data: 14 bytes'
- File characteristics:
  - Clock Stop: Not allowed
  - Min. frequency for 3GPP algorithm: 13/8 MHz
  - Technology identification: 3V Technology SIM
  - CHV1: disabled
- DFs in current directory: 2
- EFs in current directory: 8
- Number of CHV and admin. Codes: 3
- RFU byte 18: 00
- CHV1 status:
  - False representations remaining: 3
  - RFU-bits 7-5: 000
  - Secret code: Initialized
- Unlock CHV1 status:
  - False representations remaining: 10
  - RFU-bits 7-5: 000
  - Secret code: Initialized
- CHV2 status:
  - False representations remaining: 3
  - RFU-bits 7-5: 000
  - Secret code: Initialized
- Unlock CHV2 status:
  - False representations remaining: 10
  - RFU-bits 7-5: 000
  - Secret code: Initialized
- RFU bytes 23: 00
- Reserved for admin. management: 00 83 00 FF

Status Words
- SW1 / SW2: Normal ending of command

Coding:

Coding:	00	00	02	8D	3F	00	01	00	00	22	FF	01
	0E	9B	02	08	03	00	83	8A	83	8A	00	00
	83	00	FF	90	00							

TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

R-APDU data

RFU:	'00 00'
Not allocated memory:	'653 bytes'
File ID:	Master File
Type of file:	MF
RFU:	00 00 22 FF 01'
Length of following data:	14 bytes'
File characteristics:	
Clock Stop:	Not allowed
Min. frequency for 3GPP algorithm:	13/8 MHz
Technology identification:	3V Technology SIM
CHV1:	disabled
DFs in current directory:	2
EFs in current directory:	
Number of CHV and admin. Codes:	3
RFU byte 18:	00
CHV1 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV1 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
CHV2 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV2 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
RFU bytes 23:	00
Reserved for admin. management:	00 83 00 FF

Status Words

SW1 / SW2:	Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	0F	00	00	02	8D	3F	00	01	00	00	22
	FF	01	0E	90	00							

Expected Sequence 1.2 (PERFORM CARD APDU, card reader 1, additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 1.1.1	Power on card reader 1.
4	Terminal → SIM2	RESET CARD	Perform electrical initialization.
5	SIM2 → Terminal	ANSWER TO RESET 1.1	ATR.
6	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	ATR.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.1	
8	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
9	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.1	Select GSM.
10	Terminal → SIM2	C-APDU: SELECT 1.2a	Select GSM.
11	SIM2 → Terminal	R-APDU: SELECT 1.2a	
12	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.2	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2	Select PLMN.
16	Terminal → SIM2	C-APDU: SELECT 1.2b	Select PLMN.
17	SIM2 → Terminal	R-APDU: SELECT 1.2b	
18	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3	Update Binary.
22	Terminal → SIM2	C-APDU: UPDATE BINARY 1.2	Update Binary.
23	SIM2 → Terminal	R-APDU: UPDATE BINARY 1.2	
24	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	
25	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.4	
26	Terminal → UICC	FETCH	
27	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4	Read Binary.
28	Terminal → SIM2	C-APDU: READ BINARY 1.2	Read Binary.
29	SIM2 → Terminal	R-APDU: READ BINARY 1.2	
30	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4	
31	UICC → Terminal	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.5	
32	Terminal → UICC	FETCH	
33	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5	Update Binary.
34	Terminal → SIM2	C-APDU: UPDATE BINARY 1.2a	Update Binary.
35	SIM2 → Terminal	R-APDU: UPDATE BINARY 1.2	
36	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	

PROACTIVE COMMAND PERFORM CARD APDU 1.2.1

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card Reader 1

C-APDU
Class: 'A0'
Instruction: SELECT
P1 parameter: '00'
P2 parameter: '00'
Lc: '02'
Data: DF GSM

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	7F	20				

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card Reader 1

C-APDU
Class: 'A0'
Instruction: SELECT
P1 parameter: '00'
P2 parameter: '00'
Lc: '02'
Data: EF PLMN

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	6F	30				

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card Reader 1

C-APDU
Class: 'A0'
Instruction: UPDATE BINARY
P1 parameter: '00'
P2 parameter: '00'
Lc: '18'
Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	00	01	02	03	04	05
	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11
	12	13	14	15	16	17						

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card Reader 1

C-APDU
Class: 'A0'
Instruction: READ BINARY
P1 parameter: '00'
P2 parameter: '00'
Le: '18'

Coding:

BER-TLV:	D0	10	81	03	01	30	00	82	02	81	11	A2
	05	A0	B0	00	00	18						

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card Reader 1

C-APDU

Class:	'A0'
Instruction:	UPDATE BINARY
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'18'
Data:	'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'

Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF						

C-APDU: SELECT 1.2a

Logically:

C-APDU

Class:	'A0'
Instruction:	SELECT
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'02'
Data:	DF GSM

Coding:

Coding:	A0	A4	00	00	02	7F	20

C-APDU: SELECT 1.2b

Logically:

C-APDU

Class:	'A0'
Instruction:	SELECT
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'02'
Data:	EF PLMN

Coding:

Coding:	A0	A4	00	00	02	6F	30

C-APDU: UPDATE BINARY 1.2

Logically:

C-APDU

Class:	'A0'
Instruction:	UPDATE BINARY
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'18'
Data:	'00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

Coding:	A0	D6	00	00	18	00	01	02	03	04	05	06
	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12
	13	14	15	16	17							

C-APDU: READ BINARY 1.2

Logically:

C-APDU
- Class: 'A0'
- Instruction: READ BINARY
- P1 parameter: '00'
- P2 parameter: '00'
- Le: '18'

Coding:

Coding:	A0	B0	00	00	18

C-APDU: UPDATE BINARY 1.2a

Logically:

C-APDU
- Class: 'A0'
- Instruction: UPDATE BINARY
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '18'
- Data: 'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'

Coding:

Coding:	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF							

R-APDU: SELECT 1.2a

Logically:

Status Words
- SW1 / SW2: Normal ending of command - length '1B' of response data

Coding:

Coding:	9F	1B

R-APDU: SELECT 1.2b

Logically:

Status Words
- SW1 / SW2: Normal ending of command - length '0F' of response data

Coding:

Coding:	9F	0F

R-APDU: UPDATE BINARY 1.2

Logically:

Status Words
SW1 / SW2: Normal ending of command

Coding:

Coding:	90	00

R-APDU: READ BINARY 1.2

Logically:

R-APDU data
Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Status Words
SW1 / SW2: Normal ending of command

Coding:

Coding:	00	01	02	03	04	05	06	07	08	09	0A	0B
	0C	0D	0E	0F	10	11	12	13	14	15	16	17
	90	00										

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

R-APDU
Status Words
SW1 / SW2: Command performed successfully - length 1B of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	1B								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

R-APDU
Status Words
SW1 / SW2: Command performed successfully - length 0F of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	0F								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

R-APDU
Status Words
SW1 / SW2: Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	90	00								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4

Logically:

Command details
Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

R-APDU
R-APDU data
Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'
Status Words
SW1 / SW2: Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	1A	00	01	02	03	04	05	06	07	08	09
	0A	0B	0C	0D	0E	0F	10	11	12	13	14	15
	16	17	90	00								

Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER OFF CARD 1.3.1	Power off card reader 1.
4	Terminal → SIM2	POWER OFF CARD	Power off card reader 1.
5	Terminal → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.3.1	Successful.
6	Terminal	SIM2 is powered off from Terminal card reader	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	Select Master File.
10	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1	Card powered off.

PROACTIVE COMMAND: POWER OFF CARD 1.3.1

Logically:

Command details
- Command number: 1
- Command type: POWER OFF CARD
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 1.3.1

Logically:

Command details
- Command number: 1
- Command type: POWER OFF CARD
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Card powered off

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	04									

Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	Terminal	SIM2 is removed from Terminal card reader	
2	UICC → Terminal	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	Select Master File.
5	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1	No card inserted.

TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	02									

Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional Terminal card reader))

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.5.1	Invalid card reader ID.
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1	Select Master File.
5	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1	Specified reader not valid.

PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card Reader 7

C-APDU
- Class: 'A0'
- Instruction: SELECT
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '02'
- Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	17	A2
	07	A0	A4	00	00	02	3F	00				

C-APDU: SELECT 1.1

Logically:

C-APDU
- Class: 'A0'
- Instruction: SELECT
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '02'
- Data: Master File

Coding:

Coding:	A0	A4	00	00	02	3F	00

TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Specified reader not valid

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	09									

27.22.4.17.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.5.

27.22.4.17.2 PERFORM CARD APDU (detachable card reader)

27.22.4.17.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.17.2.2 Conformance requirement

27.22.4.17.2.3 Test purpose

To verify that the Terminal sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive UICC command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.17.2.4 Method of test

27.22.4.17.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The card reader shall be detached from the Terminal.

27.22.4.17.2.4.2 Procedure

Expected Sequence 2.1 (PERFORM CARD APDU, card reader 1, card reader detached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: PERFORM CARD APDU 2.1.1	Select Master File.
4	Terminal → UICC	TERMINAL RESPONSE: PERFORM CARD APDU 2.1.1	Card reader detached.

PROACTIVE COMMAND: PERFORM CARD APDU 2.1.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card Reader 1

C-APDU
- Class: 'A0'
- Instruction: SELECT
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '02'
- Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	3F	00				

TERMINAL RESPONSE: PERFORM CARD APDU 2.1.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	01									

27.22.4.17.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.18 POWER OFF CARD

27.22.4.18.1 POWER OFF CARD (normal)

27.22.4.18.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: Power Off Card facility as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.18, 6.6.18, 8.6, 8.7, 8.12, 8.12.9, 5.2 and annex H.

27.22.4.18.1.3 Test purpose

To verify that the Terminal closes a session with the additional card identified in the POWER OFF CARD proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

The Terminal-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for Terminals with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.18.1.4 Method of test

27.22.4.18.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The Terminal card reader is connected to a SIM Simulator (SIM2). Instead of a SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the UICC Simulator shall take into account the corresponding response data.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the Terminal supports a detachable card reader, the card reader shall be attached to the Terminal.

Prior to this test the Terminal shall have powered on the SIM Simulator (SIM2).

27.22.4.18.1.4.2 Procedure

Expected Sequence 1.1 (POWER OFF CARD, card reader 1)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER OFF CARD 1.1.1	Power off card reader 1.
4	Terminal → SIM2	POWER OFF CARD	Power off card reader 1.
5	Terminal → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.1.1	Successful.

PROACTIVE COMMAND: POWER OFF CARD 1.1.1

Logically:

Command details
Command number: 1
Command type: POWER OFF CARD
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 1.1.1

Logically:

Command details
Command number: 1
Command type: POWER OFF CARD
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from Terminal card reader	
2	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.1.1	
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: POWER OFF CARD 1.1.1	Power off card reader 1.
5	Terminal → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.2.1	No card inserted.

TERMINAL RESPONSE: POWER OFF CARD 1.2.1

Logically:

Command details
Command number: 1
Command type: POWER OFF CARD
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result

General Result: MultipleCard commands error
Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	02
	38	02									

27.22.4.18.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.2.

27.22.4.18.2 POWER OFF CARD (detachable card reader)

27.22.4.18.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.2.2 Conformance requirement

Void.

27.22.4.18.2.3 Test purpose

To verify that the Terminal closes a session with the additional card identified in the POWER OFF CARD proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.18.2.4 Method of test

27.22.4.18.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The Terminal card reader is connected to a SIM Simulator (SIM2).

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to this test the Terminal shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the Terminal.

27.22.4.18.2.4.2 Procedure

Expected Sequence 2.1 (POWER OFF CARD, card reader 1, no card reader attached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER OFF CARD 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER OFF CARD 2.1.1	Power off card reader 1.
4	Terminal → UICC	TERMINAL RESPONSE: POWER OFF CARD 2.1.1	Card reader removed or not present.

PROACTIVE COMMAND: POWER OFF CARD 2.1.1

Logically:

Command details
Command number: 1
Command type: POWER OFF CARD
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 2.1.1

Logically:

Command details
Command number: 1
Command type: POWER OFF CARD
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: MultipleCard commands error
Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	02
	38	01									

27.22.4.18.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.19 POWER ON CARD

27.22.4.19.1 POWER ON CARD (normal)

27.22.4.19.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.19.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: Power On Card facility as defined in:

- TS 102 223 [1], clauses 6.1, 6.4.19, 6.6.19, 8.6, 8.7, 8.12, 8.12.9, 8.34, 5.2 and annex H.
- ISO/IEC 7816-3 [7].

27.22.4.19.1.3 Test purpose

To verify that the Terminal starts a session with the additional card identified in the POWER ON CARD proactive UICC command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the UICC.

The Terminal-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for Terminals with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.19.1.4 Method of test

27.22.4.19.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The Terminal card reader is connected to a SIM Simulator (SIM2). Instead of the SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the UICC Simulator shall take into account the corresponding response data.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the Terminal supports a detachable card reader, the card reader shall be attached to the Terminal.

27.22.4.19.1.4.2 Procedure

Expected Sequence 1.1 (POWER ON CARD, card reader 1)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 1.1.1	Power on card reader 1.
4	Terminal → SIM2	RESET CARD	Perform electrical initialization.
5	SIM2 → Terminal	ANSWER TO RESET 1.1.1	ATR
6	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	ATR

PROACTIVE COMMAND: POWER ON CARD 1.1.1

Logically:

Command details
- Command number: 1
- Command type: POWER ON CARD
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

ANSWER TO RESET 1.1.1

Logically:

TS (Initial character):	'3B'
T0 (Format character):	0F
T1 (Historical character):	'P'
T2 (Historical character):	'o'
T3 (Historical character):	'w'
T4 (Historical character):	'e'
T5 (Historical character):	'r'
T6 (Historical character):	'O'
T7 (Historical character):	'n'
T8 (Historical character):	'C'
T9 (Historical character):	'a'
T10 (Historical character):	'r'
T11 (Historical character):	'd'
T12 (Historical character):	'T'
T13 (Historical character):	'e'
T14 (Historical character):	's'
T15 (Historical character):	't'

Coding:

BER-TLV:	3B	0F	50	6F	77	65	72	4F	6E	43	61	72
	64	54	65	74	75							

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details

Command number:	1
Command type:	POWER ON CARD
Command qualifier:	"00"

Device identities

Source device:	Terminal
Destination device:	UICC

Result

General Result:	Command performed successfully

Card ATR

TS (Initial character):	'3B'
T0 (Format character):	0F
T1 (Historical character):	'P'
T2 (Historical character):	'o'
T3 (Historical character):	'w'
T4 (Historical character):	'e'
T5 (Historical character):	'r'
T6 (Historical character):	'O'
T7 (Historical character):	'n'
T8 (Historical character):	'C'
T9 (Historical character):	'a'
T10 (Historical character):	'r'
T11 (Historical character):	'd'
T12 (Historical character):	'T'
T13 (Historical character):	'e'
T14 (Historical character):	's'
T15 (Historical character):	't'

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	11	3B	0F	50	6F	77	65	72	4F	6E	43
	61	72	64	54	65	74	75					

Expected Sequence 1.2 (POWER ON CARD, card reader 1, no ATR)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 1.1.1	Power on card reader 1.
4	Terminal → SIM2	RESET CARD	Perform electrical initialization.
5	SIM2 → Terminal	NO ATR	No ATR
6	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 1.2.1	No ATR

TERMINAL RESPONSE: POWER ON CARD 1.2.1

Logically:

Command details
- Command number: 1
- Command type: POWER ON CARD
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Card mute

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	06											

Expected Sequence 1.3 (POWER ON CARD, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from Terminal card reader	
2	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 1.1.1	Power on card reader 1.
5	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 1.3.1	Card removed or not present.

TERMINAL RESPONSE: POWER ON CARD 1.3.1

Logically:

Command details
- Command number: 1
- Command type: POWER ON CARD
- Command qualifier: "00"

Device identities
- Source device: Card reader 0
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	02											

27.22.4.19.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.19.2 POWER ON CARD (detachable card reader)

27.22.4.19.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.19.2.2 Conformance requirement

27.22.4.19.2.3 Test purpose

To verify that the Terminal starts a session with the additional card identified in the POWER ON CARD proactive UICC command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the UICC.

27.22.4.19.2.4 Method of test

27.22.4.19.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default with the following exceptions.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The card reader shall be detached from the Terminal.

27.22.4.19.2.4.2 Procedure

Expected Sequence 2.1 (POWER ON CARD, card reader 1, no card reader attached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 2.1.1	Power on card reader 1.
4	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 2.1.1	Card reader removed or not present.

PROACTIVE COMMAND: POWER ON CARD 2.1.1

Logically:

Command details
- Command number: 1
- Command type: POWER ON CARD
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

TERMINAL RESPONSE: POWER ON CARD 2.1.1

Logically:

Command details
- Command number: 1
- Command type: POWER ON CARD
- Command qualifier: "00"

Device identities
- Source device: Card reader 0
- Destination device: UICC

Result
- General Result: MultipleCard commands error
- Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	01											

27.22.4.19.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.20 GET READER STATUS

27.22.4.20.1 GET READER STATUS (normal)

27.22.4.20.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.20.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: Get Card Reader Status facility as defined in:

- TS 102 223 [1], clauses 6.1, 5.2, 6.4.20, 6.6.20, 6.8, 8.6, 8.7, 8.33, 8.57 and annex H.

Additionally the Terminal shall support multiple card operation as defined in:

- TS 102 223 [1], clauses 6.4.19, 6.6.19, 6.4.18 and 6.6.18.

27.22.4.20.1.3 Test purpose

To verify that the Terminal sends starts a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns information about all interfaces to additional card reader(s) in the TERMINAL RESPONSE command send to the UICC.

The Terminal-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for Terminals with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this test case the SIM-Simulator (SIM2) shall response with the ATR "3B 00".

27.22.4.20.1.4 Method of test

27.22.4.20.1.4.1 Initial conditions

The Terminal shall support the Proactive UICC: Get Card Reader Status (Card Reader Status) facility. The Terminal is connected to the UICC Simulator.

The Terminal card reader is connected to a SIM Simulator (SIM2). Instead of the SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the UICC Simulator shall take into account the corresponding response data.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the Terminal supports a detachable card reader, the card reader shall be attached to the Terminal.

Prior to this test the Terminal shall have powered on the SIM Simulator (SIM2).

27.22.4.20.1.4.2 Procedure

Expected Sequence 1.1 (GET CARD READER STATUS, card reader 1, card inserted, card powered)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER ON CARD 1.1.1	Power on card reader 1.
4	Terminal → SIM2	RESET CARD	Perform electrical initialization.
5	SIM2 → Terminal	ANSWER TO RESET 1.1.1	ATR
6	Terminal → UICC	TERMINAL RESPONSE: POWER ON CARD 1.1.1	ATR
7	UICC → Terminal	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	Get Card Reader Status.
10	Terminal → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1a Or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1c or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1d	Successful. Successful. Successful. Successful.

PROACTIVE COMMAND: POWER ON CARD 1.1.1

Logically:

Command details
Command number: 1
Command type: POWER ON CARD
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11

ANSWER TO RESET 1.1.1

Logically:

TS (Initial character): '3B'
T0 (Format character): '00'

Coding:

Coding:	3B	00

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details
- Command number: 1
- Command type: POWER ON CARD
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card ATR
- TS (Initial character): '3B'
- T0 (Format character): '00'

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	02	3B	00								

PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	33	00	82	02	81	82

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1a

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '01'
- Card reader removable: 'No'
- Card reader present: Yes
- Card reader ID-1 size: 'Yes'
- Card present in reader: Yes
- Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	F1							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1b

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '01'
- Card reader removable: 'No'
- Card reader present: Yes
- Card reader ID-1 size: 'No'
- Card present in reader: Yes
- Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	D1							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1c

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '01'
- Card reader removable: 'Yes'
- Card reader present: Yes
- Card reader ID-1 size: 'Yes'
- Card present in reader: Yes
- Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	F9							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1d

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '01'
- Card reader removable: 'Yes'
- Card reader present: Yes
- Card reader ID-1 size: 'No'
- Card present in reader: Yes
- Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	D9							

Expected Sequence 1.2 (GET CARD READER STATUS, card reader 1, card inserted, card not powered)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: POWER OFF CARD 1.2.1	Power off card reader 1.
4	Terminal → SIM2	POWER OFF CARD	Power off card reader 1.
5	Terminal → UICC	TERMINAL RESPONSE: POWER OFF CARD 1.2.1	Successful.
6	UICC → Terminal	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
7	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
8	UICC → Terminal	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	Get Card Reader Status.
9	Terminal → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1a Or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1c Or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1d	Successful. Successful. Successful. Successful.

PROACTIVE COMMAND: POWER OFF CARD 1.2.1

Logically:

Command details
- Command number: 1
- Command type: POWER OFF CARD
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11

TERMINAL RESPONSE: POWER OFF CARD 1.2.1

Logically:

Command details
- Command number: 1
- Command type: POWER OFF CARD
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1a

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Card reader status
Identity of card reader: '01'
Card reader removable: 'No'
Card reader present: Yes
Card reader ID-1 size: 'Yes'
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	71							

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1b

Logically: Command details
Command number: 1
Command type: GET CARD READER STATUS
Command qualifier: Card reader status

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully
Card reader status
Identity of card reader: '01'
Card reader removable: 'No'
Card reader present: Yes
Card reader ID-1 size: 'No'
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	51							

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1c

Logically:

Command details
Command number: 1
Command type: GET CARD READER STATUS
Command qualifier: Card reader status

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Card reader status
Identity of card reader: '01'
Card reader removable: 'Yes'
Card reader present: Yes
Card reader ID-1 size: 'Yes'
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	79							

TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1d

Logically:

Command details
Command number: 1
Command type: GET CARD READER STATUS
Command qualifier: Card reader status

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Card reader status
Identity of card reader: '01'
Card reader removable: 'Yes'
Card reader present: Yes
Card reader ID-1 size: 'No'
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	59							

Expected Sequence 1.3 (GET CARD READER STATUS, card reader 1, card not present)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from Terminal card reader	
2	UICC → Terminal	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	Get Card Reader Status.
5	Terminal → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1a or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1c or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1d	Successful. Successful. Successful. Successful.

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1a

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '1'
- Card reader removable: 'No'
- Card reader present: Yes
- Card reader ID-1 size: 'Yes'
- Card present in reader: No
- Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	31							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1b

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '1'
- Card reader removable: 'No'
- Card reader present: Yes
- Card reader ID-1 size: 'No'
- Card present in reader: No
- Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	11							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1c

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '1'
- Card reader removable: 'Yes'
- Card reader present: Yes
- Card reader ID-1 size: 'Yes'
- Card present in reader: No
- Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	39							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1d

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: '1'
- Card reader removable: 'Yes'
- Card reader present: Yes
- Card reader ID-1 size: 'No'
- Card present in reader: No
- Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	19							

27.22.4.20.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.20.2 GET CARD READER STATUS (detachable card reader)

27.22.4.20.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.20.2.2 Conformance requirement

Void.

27.22.4.20.2.3 Test purpose

To verify that the Terminal closes a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.20.2.4 Method of test

27.22.4.20.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to this test the Terminal shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the Terminal.

27.22.4.20.2.4.2 Procedure

Expected Sequence 2.1 (GET CARD READER STATUS, no card reader attached)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: GET CARD READER STATUS 2.1.1	Get Card Reader Status.
4	Terminal → UICC	TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1a or TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1b	Successful. Successful.

PROACTIVE COMMAND: GET CARD READER STATUS 2.1.1

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card Reader Status

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	33	00	82	02	81	82

TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1a

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: 01
- Card reader removable: Yes
- Card reader present: No
- Card reader ID-1 size: Yes
- Card present in reader: No
- Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	29							

TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1b

Logically:

Command details
- Command number: 1
- Command type: GET CARD READER STATUS
- Command qualifier: Card reader status

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Card reader status
- Identity of card reader: 01
- Card reader removable: Yes
- Card reader present: No
- Card reader ID-1 size: No
- Card present in reader: No
- Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	09							

27.22.4.20.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 2.1.

27.22.4.21 TIMER MANAGEMENT and ENVELOPE TIMER EXPIRATION

27.22.4.21.1 TIMER MANAGEMENT (normal)

27.22.4.21.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.1.2 Conformance Requirement

The Terminal shall support the TIMER MANAGEMENT as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.21, 6.8, 8.6, 8.7, 8.37 and 8.38.

27.22.4.21.1.3 Test purpose

To verify that the Terminal manages correctly its internal timers, start a timer, deactivate a timer or return the current value of a timer according to the Timer Identifier defined in the TIMER MANAGEMENT proactive UICC command.

27.22.4.21.1.4 Method of Test

27.22.4.21.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.4.21.1.4.2 Procedure

Expected Sequence 1.1 (TIMER MANAGEMENT, start timer 1 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1	Start timer 1.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.2	After 1 minute following reception of Terminal Response.
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2	Ask value of timer 1.
8	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2	Command performed successfully.
9	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.3	Before timer expires!
10	Terminal → UICC	FETCH	
11	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3	Reinitialize timer 1.

Step	Direction	MESSAGE / Action	Comments
12	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.3	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.4	After 30 s following reception of the Terminal Response.
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4	Deactivate timer 1.
16	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4	Command performed successfully.

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: 5 min

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	50	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	01										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 1

Timer value
Value of timer: 1 min 30 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	10	03					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1 and 1.1.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: value < to the timer value of command 1.1.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	01	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: deactivate the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: value < to the timer value of command 1.1.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	01	A5	03	xx	xx	xx				

Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.1	Start timer 2.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.2	After 1 minute following reception of Terminal Response.
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2	Ask value of timer 2.
8	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2	Command performed successfully.
9	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.3	Before timer expires!
10	Terminal → UICC	FETCH	
11	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3	Reinitialize timer 2.
12	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.3	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.4	After 10 seconds following reception of Terminal Response
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4	Deactivate timer 2.
16	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4	Command performed successfully.

PROACTIVE COMMAND:TIMER MANAGEMENT 1.2.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 2

Timer value
- Value of timer: 23 h 59 min 59 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	32	95	95					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	02										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 2

Timer value
Value of timer: 1 min 10 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	00	10	01					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1 and 1.2.3

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 2

Timer value
- Value of timer: value < to the timer value of command 1.2.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	02	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: deactivate the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 2

Timer value
- Value of timer: value < to the timer value of command 1.2.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	02	A5	03	xx	xx	xx				

Expected Sequence 1.3 (TIMER MANAGEMENT, start timer 8 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.1	Start timer 8.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.2	After 1 minute following reception of Terminal Response
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2	Ask value of timer 8.
8	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2	Command performed successfully.
9	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.3	Before timer expires!
10	Terminal → UICC	FETCH	
11	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3	Reinitialize timer 8.
12	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.3	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.4	After 30 seconds following reception of Terminal Response.
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4	Deactivate timer 8.
16	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4	Command performed successfully.

PROACTIVE COMMAND:TIMER MANAGEMENT 1.3.1

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 8

Timer value
Value of timer: 20 min

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	02	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	08										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 8

Timer value
Value of timer: 01 h 00 min 00 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	10	00	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: deactivate the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1 and 1.3.3

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 8

Timer value
Value of timer: value < to the timer value of command 1.3.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 8

Timer value
Value of timer: value < to the timer value of command 1.3.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

Expected Sequence 1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started: action in contradiction with the current timer state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1	Get current value from timer 1.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1B	Action in contradiction with the current timer state.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.2	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2	Get current value from timer 2.

Step	Direction	MESSAGE / Action	Comments
8	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2B	Action in contradiction with the current timer state.
9	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.3	
10	Terminal → UICC	FETCH	
11	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3	Get current value from timer 3.
12	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3B	Action in contradiction with the current timer state.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.4	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4	Get current value from timer 4.
16	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4B	Action in contradiction with the current timer state.
17	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.5	
18	Terminal → UICC	FETCH	
19	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5	Get current value from timer 5.
20	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5B	Action in contradiction with the current timer state.
21	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.6	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6	Get current value from timer 6.
24	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6B	Action in contradiction with the current timer state.
25	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.7	
26	Terminal → UICC	FETCH	
27	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7	Get current value from timer 7.
28	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7B	Action in contradiction with the current timer state.
29	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.8	
30	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
31	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8	Get current value from timer 8.
32	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8B	Action in contradiction with the current timer state.

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1A

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1B

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	03										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	03									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3B

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 4

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	04										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4A

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	04									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4B

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	05										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5A

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	05									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	06										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	06									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal

Destination device: UICC
Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 7

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	07										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	07									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get current value from the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24

Expected Sequence 1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.1	Deactivate timer 1.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1B	Action in contradiction with the current timer state.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.2	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.2	Deactivate timer 2.
8	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2B	Action in contradiction with the current timer state.
9	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.3	

Step	Direction	MESSAGE / Action	Comments
10	Terminal → UICC	FETCH	
11	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.3	Deactivate timer 3.
12	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3B	Action in contradiction with the current timer state.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.4	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.4	Deactivate timer 4.
16	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4B	Action in contradiction with the current timer state.
17	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.5	
18	Terminal → UICC	FETCH	
19	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5	Deactivate timer 5.
20	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5B	Action in contradiction with the current timer state.
21	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.6	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6	Deactivate timer 6.
24	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6B	Action in contradiction with the current timer state.
25	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.7	
26	Terminal → UICC	FETCH	
27	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7	Deactivate timer 7.
28	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7B	Action in contradiction with the current timer state.
29	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.8	
30	Terminal → UICC	FETCH	
31	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8	Deactivate timer 8.
32	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8B	Action in contradiction with the current timer state.

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.1

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: deactivate the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2A

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: Deactivate Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2B

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: Deactivate Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND3: TIMER MANAGEMENT 1.5.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	03										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	03									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 4

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	04										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	04									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal

Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	05										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	05									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5B

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: Deactivate Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: deactivate the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	06										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6A

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: Deactivate Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	06									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 7

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	07										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	07									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: deactivate the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8A

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8B

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: Deactivate Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24

Expected Sequence 1.6 (TIMER MANAGEMENT, start 8 timers successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.1	Timer 1.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.2	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.2	Timer 2.
8	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.2	Command performed successfully.
9	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.3	
10	Terminal → UICC	FETCH	
11	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.3	Timer 3.
12	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.3	Command performed successfully.

Step	Direction	MESSAGE / Action	Comments
13	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.4	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.4	Timer 4.
16	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.4	Command performed successfully.
17	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.5	
18	Terminal → UICC	FETCH	
19	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.5	Timer 5.
20	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.5	Command performed successfully.
21	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.6	
22	Terminal → UICC	FETCH	
23	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.6	Timer 6.
24	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.6	Command performed successfully.
25	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.7	
26	Terminal → UICC	FETCH	
27	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.7	Timer 7.
28	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.7	Command performed successfully.
29	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.8	
30	Terminal → UICC	FETCH	
31	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.8	Timer 8.
32	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.8	Command performed successfully.

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 2

Timer value
- Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	02									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 3

Timer value
Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	03	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.3

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	03									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 4

Timer value
Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	04	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.4

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	04									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.5

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 5

Timer value
Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	05	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.5

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	05									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.6

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 6

Timer value
Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	06	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.6

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	06									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.7

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 7

Timer value
Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	07	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.7

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	07									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.8

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: UICC
Destination device: Terminal

Timer identifier
Identifier of timer: 8

Timer value
Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.8

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: start the Timer

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Timer identifier
Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	08									

27.22.4.21.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)

27.22.4.21.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.2.2 Conformance requirement

The Terminal shall support the ENVELOPE (TIMER EXPIRATION) command as defined in the following technical specifications:

- TS 102 223 [1], clauses 4.10, 7.4.1 and 7.4.2.
- The Terminal shall support the TIMER MANAGEMENT as defined in the following technical specifications:
- TS 102 223 [1], clauses 5.2, 6.4.21, 6.8, 8.6, 8.7, 8.37 and 8.38.

27.22.4.21.2.3 Test purpose

To verify that the Terminal shall pass the identifier of the timer that has expired and its value using the ENVELOPE (TIMER EXPIRATION) command, when a timer previously started in a TIMER MANAGEMENT proactive command expires.

27.22.4.21.2.4 Method of test

27.22.4.21.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default with the following exceptions.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The timer 1 is not started.

When the UICC is busy when the envelope TIMER EXPIRATION is sent, either the Terminal retries periodically to send the envelope, either it waits for a TERMINAL RESPONSE processed by the UICC with status '90 00'.

If the Terminal waits for a TR with status '90 00', the Terminal manufacturer shall specify how many TERMINAL RESPONSES with status '90 00' are expected before sending the TIMER EXPIRATION envelope.

27.22.4.21.2.4.2 Procedure

Expected Sequence 2.1 (TIMER EXPIRATION, pending proactive UICC command)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1	Timer 1.
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1	Command performed successfully.
5	Terminal → UICC	ENVELOPE: TIMER EXPIRATION 2.1.1	
6	UICC → Terminal	PROACTIVE COMMAND PENDING: MORE TIME X.1(or an other toolkit command tested before to ensure it is properly supported by the Terminal).	Response to envelope is "91 xx".
7	Terminal → UICC	FETCH	

PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: 0 h 0 min 10 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	01					

TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

ENVELOPE: TIMER EXPIRATION 2.1.1

Logically:

Device identities
- Source device: Terminal
- Destination device: UICC

Timer identifier
- Timer 1

Timer value
- Hour: '00'
- Minute: '00'
- Second: '10' ± 1 s

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

Expected Sequence 2.2 (TIMER EXPIRATION, UICC application toolkit busy)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1	[timer 1]
4	Terminal → UICC	TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1	[command performed successfully]
5	Terminal → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1A	
6	UICC → Terminal	PROACTIVE UICC SESSION BUSY	[UICC is busy; response to the envelope = "93 00"]
...			[UICC is busy during 10 seconds, if the terminal periodically retries to send of the envelope until it is accepted, then step 7a-10a apply. If the terminal does not periodically retry to send the envelope, e.g. it waits for a TERMINAL RESPONSE processed by the UICC with status '90 00', then step 7b - 14b apply]
7a	Terminal → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1B	[Branch applies for terminals periodically retrying to send the envelope]
8a	UICC → Terminal	PROACTIVE UICC SESSION BUSY	[UICC is busy, response to the envelope = "93 00"]
9a	Terminal → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1C	
10a	UICC → Terminal	SW1/SW2=90 00	
7b	Terminal → UICC	STATUS or other command	[Branch applies for terminals not periodically retrying to send the envelope (in compliance with 3GPP TS 11.14 [15], clause 10.1)] Steps 7b - 12b are repeated maximal 100 times (to prevent infinite testing) or until the terminals sends ENVELOPE: TIMER EXPIRATION 2.2.1B in step 13b or at any time during steps 7b - 12b (in latter case step 13b is obsolete).
8b	UICC → Terminal	Response to the command issued in step 7b PROACTIVE COMMAND PENDING	[SW1/SW2=91 xx]
9b	Terminal → UICC	FETCH	
10b	UICC → Terminal	PROACTIVE COMMAND: e.g. MORE TIME 2.2.2	
11b	Terminal → UICC	TERMINAL RESPONSE: e.g. MORE TIME 2.2.2	[command performed successfully]
12b	UICC → Terminal	Response to the command issued in step 11b	[SW1/SW2 = 90 00]
13b	Terminal → UICC	ENVELOPE: TIMER EXPIRATION 2.2.1B	
14b	UICC → Terminal	SW1/SW2=90 00	

PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: UICC
- Destination device: Terminal

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: 0 h 0 min 30 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	03					

TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: start the Timer

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

ENVELOPE: TIMER EXPIRATION 2.2.1A

Logically:

Device identities
- Source device: Terminal
- Destination device: UICC

Timer identifier
- Timer 1

Timer value
- Hour: '00'
- Minute: '00'
- Second: '30' ± 1 s

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

ENVELOPE: TIMER EXPIRATION 2.2.1B

Logically:

Device identities
- Source device: Terminal
- Destination device: UICC

Timer identifier
- Timer 1

Timer value
- Hour: '00'
- Minute: '00'
- Second: ≥ timer in clause 2.2.1A

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

ENVELOPE: TIMER EXPIRATION 2.2.1C

Logically:

Device identities
- Source device: Terminal
- Destination device: UICC

Timer identifier
- Timer 1

Timer value
- Hour: '00'
- Minute: '00'
- Second: ≥ timer in 2.2.1B

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

PROACTIVE COMMAND: MORE TIME 2.2.2

Logically:

Command details
- Command number: 1
- Command type: MORE TIME
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 2.2.2

Logically:

Command details
- Command number: 1
- Command type: MORE TIME
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00

27.22.4.21.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 2.1 to 2.2.

27.22.4.22 SET UP IDLE MODE TEXT

27.22.4.22.1 SET UP IDLE MODE TEXT (normal)

27.22.4.22.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.1.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 6.4.7 and 6.6.13.

Additionally the Terminal shall support the REFRESH proactive UICC facility as defined in:

- TS 102 223 [1], clauses 5.2, 6.1, 6.4.7, 6.6.13, 6.11, 8.6, 8.7, 8.12, 9.4 and 10.

27.22.4.22.1.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text.

27.22.4.22.1.4 Method of test

27.22.4.22.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure.

27.22.4.22.1.4.2 Procedure

Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text"	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text"

Coding:

BER-TLV:	D0	1A	81	03	01	28	00	82	02	81	82	8D
	0F	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74								

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SET UP IDLE MODE TEXT, replace idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	Idle Mode Text.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → Terminal	Select idle screen	Only if idle screen not already available.
6	Terminal → USER	Display "Idle Mode Text"	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.2.1	Idle Mode Text.
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.2.1	Idle Mode Text.
10	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1	
11	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
12	USER → Terminal	Select idle screen	Only if idle screen not already available.
13	Terminal → USER	Display "Toolkit Test"	

PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SETUP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: ME

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test"

Coding:

BER-TLV:	D0	18	81	03	01	28	00	82	02	81	82	8D
	0D	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74										

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	"Idle Mode Text".
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → Terminal	Select idle screen	Only if idle screen not already available.
6	Terminal → USER	Display "Idle Mode Text"	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.3.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.3.1	Remove idle mode text.
10	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.3.1	
11	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
12	USER → Terminal	Select idle screen	Only if idle screen not already available.
13	Terminal → USER	Display idle screen / "Idle Mode Text" not to be displayed	

PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SETUP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal
- Text String: zero length TLV

Coding:

BER-TLV:	D0	0B	81	03	01	28	00	82	02	81	82	8D
	00											

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on Terminal display)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	"Idle Mode Text".
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	Command performed successfully.
5	USER → Terminal	Select idle screen	Only if idle screen not already available.
6	Terminal → USER	Display "Idle Mode Text"	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.4.1	Normal priority, wait for user to clear message, unpacked, 8 bit data.
10	Terminal → USER	Display "Toolkit Test 1"	
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	Command performed successfully.
13	Terminal → USER	Display "Idle Mode Text"	
14	UICC → Terminal	PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1	
15	Terminal → UICC	FETCH	
16	UICC → Terminal	PROACTIVE COMMAND: PLAY TONE 1.4.1	
17	Terminal → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	
18	Terminal → UICC	TERMINAL RESPONSE: PLAY TONE 1.4.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	Terminal → USER	Display "Idle Mode Text"	

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 1"

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31								

TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: PLAY TONE 1.4.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Earpiece
- Alpha identifier: "Dial Tone"
- Tone: Standard supervisory tones: dial tone

Duration
- Time unit: Seconds
- Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

TERMINAL RESPONSE: PLAY TONE 1.4.1

Logically:

Command details
- Command number: 1
- Command type: PLAY TONE
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00

Expected Sequence 1.5 (SET UP IDLE MODE TEXT, Terminal power cycled)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	"Idle Mode Text".
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	Command performed successfully.
5	USER → Terminal	Select idle screen	Only if idle screen not already available.
6	Terminal → USER	Display "Idle Mode Text"	
7	USER → Terminal	Power off Terminal	
8	Terminal ⇔ UICC	NAA Session TERMINATION PROCEDURE	
9	USER → Terminal	Power on Terminal	
10	Terminal ⇔ UICC	NAA Session ACTIVATION PROCEDURE	
11	Terminal ⇔ UICC	NAA INITIALIZATION	
12	USER → Terminal	Select idle screen	Only if idle screen not already available.
13	Terminal → USER	Display idle screen / "Idle Mode Text" not to be displayed	

Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with NAA Initialization)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → Terminal	Select idle screen	Only if idle screen not already available.
6	Terminal → USER	Display "Idle Mode Text"	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: REFRESH 1.6.1	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: REFRESH 1.6.1	NAA Initialization.
10	Terminal ⇔ UICC	NAA INITIALIZATION	
11	USER → Terminal	Select idle screen	Only if idle screen not already available.
12	Terminal → USER	Display idle screen / "Idle Mode Text" not to be displayed	
13	Terminal → UICC	TERMINAL RESPONSE: REFRESH 1.6.1A or TERMINAL RESPONSE: REFRESH 1.6.1B	Command performed successfully. Command performed successfully with additional files read.
14	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.6.1

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: NAA Initialization

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	01	03	82	02	81	82

TERMINAL RESPONSE: REFRESH 1.6.1A

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: NAA Initialization

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 1.6.1B

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: NAA Initialization

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	03

Expected Sequence 1.7 (SET UP IDLE MODE TEXT, large text string)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.7.1	Large text string.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.7.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.7.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that ne"	274 characters.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.7.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: packed, SMS default alphabet
- Text: "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that ne"

Coding:

BER-TLV:	D0	81	FD	81	03	01	28	00	82	02	81	82
	8D	81	F1	00	54	74	19	34	4D	36	41	73
	74	98	CD	06	CD	EB	70	38	3B	0F	0A	83
	E8	65	3C	1D	34	A7	CB	D3	EE	33	0B	74
	47	A7	C7	68	D0	1C	1D	66	B3	41	E2	32
	88	9C	9E	C3	D9	E1	7C	99	0C	12	E7	41
	74	74	19	D4	2C	82	C2	73	50	D8	0D	4A
	93	D9	65	50	FB	4D	2E	83	E8	65	3C	1D
	94	36	83	E8	E8	32	A8	59	04	A5	E7	A0
	B0	98	5D	06	D1	DF	20	F2	1B	94	A6	BB
	A8	E8	32	08	2E	2F	CF	CB	6E	7A	98	9E
	7E	BB	41	73	7A	9E	5D	06	A5	E7	20	76
	D9	4C	07	85	E7	A0	B0	1B	94	6E	C3	D9
	E5	76	D9	4D	0F	D3	D3	6F	37	88	5C	1E
	A7	E7	E9	B7	1B	44	7F	83	E8	E8	32	A8
	59	04	B5	C3	EE	BA	39	3C	A6	D7	E5	65
	B9	0B	44	45	97	41	69	32	BB	0C	6A	BF
	C9	65	10	BD	8C	A7	83	E6	E8	30	9B	0D
	12	97	41	E4	F4	1C	CE	0E	E7	CB	64	50
	DA	0D	0A	83	DA	61	B7	BB	2C	07	D1	D1
	61	3A	A8	EC	9E	D7	E5	E5	39	88	8E	0E
	D3	41	EE	32								

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.7.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command q qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.7.

27.22.4.22.2 SET UP IDLE MODE TEXT (Icon support)

27.22.4.22.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.2.2 Conformance requirement

27.22.4.22.2.3 Test purpose

To verify that the Terminal text and / or icon passed to the Terminal is displayed by the Terminal as an idle mode text.

To verify that the icon identifier provided with the text string can replace the text string or accompany it.

To verify that if both an alpha identifier or text string, and an icon are provided with a proactive command, and both are requested to be displayed, but the Terminal is not able to display both together on the screen, then the alpha identifier or text string takes precedence over the icon.

To verify that if the UICC provides an icon identifier with a proactive command, then the Terminal shall inform the UICC if the icon could not be displayed by sending the general result "Command performed successfully, but requested icon could not be displayed".

To verify that if the Terminal receives an icon identifier with a proactive command and either an empty, or no alpha identifier / text string is given by the UICC, than the Terminal shall reject the command with general result "Command data not understood by Terminal".

27.22.4.22.2.4 Method of test

27.22.4.22.2.4.1 Initial conditions

The Terminal is connected to both the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.2.4.2 Procedure

Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	Icon is self-explanatory.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1A	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display the icon	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal
- Text String: "Idle text"

Icon identifier
Icon qualifier: icon is self-explanatory
Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	00	01									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1A

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 2.1B (SET UP IDLE MODE TEXT, Icon is self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	Icon is self-explanatory.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1B	Command performed successfully, but requested icon could not be displayed.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle text" without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1B

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

Expected Sequence 2.2A (SET UP IDLE MODE TEXT, Icon is not self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	Icon is not self-explanatory.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1A	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display icon #1 and "Idle text"	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal
- Text String: "Idle text"

Icon identifier
- Icon qualifier: icon is not self-explanatory
- Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	01	01									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1A

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 2.2B (SET UP IDLE MODE TEXT, Icon is not self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	Icon is not self-explanatory.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1B	Command performed successfully, but requested icon could not be displayed.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle text" without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1B

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

Expected Sequence 2.3A (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	Icon is self-explanatory.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display the icon	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal
Text String: "Idle text"

Icon identifier
Icon qualifier: icon is self-explanatory
Icon identifier: <record 2 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	00	02									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

Expected Sequence 2.3B (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	Icon is self-explanatory.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B	Requested icon could not be displayed.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display 'Idle text' without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, empty text string)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.4.1	Icon is not self-explanatory, empty text string.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.4.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.4.1	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text string
- Contents: null data object

Icon identifier
- Icon qualifier: icon is not self-explanatory
- Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	0F	81	03	01	28	00	82	02	81	82	8D
	00	9E	02	01	01							

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command data not understood by Terminal

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	32

27.22.4.22.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 2.1A to 2.4.

27.22.4.22.3 SET UP IDLE MODE TEXT (UCS2 display in Cyrillic)

27.22.4.22.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.3.2 Conformance requirement

The Terminal shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [2].

27.22.4.22.3.3 Test purpose

To verify that the UCS2 coded text string is displayed by the Terminal as an idle mode text.

27.22.4.22.3.4 Method of test

27.22.4.22.3.4.1 Initial conditions

The Terminal is connected to both the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.3.4.2 Procedure

Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 3.1.1	"Hello" in Russian.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 3.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 3.1.1	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display " ЗДРАВСТВУЙТЕ"	"Hello" in Russian.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 3.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: UCS2 (16bit)
- Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	24	81	03	01	28	00	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 3.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.1.

27.22.4.22.4 SET UP IDLE MODE TEXT (support of Text Attribute)

27.22.4.22.4.1 SET UP IDLE MODE TEXT (support of Text Attribute - Left Alignment)

27.22.4.22.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.1.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.1.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the left alignment text attribute configuration.

27.22.4.22.4.1.4 Method of test

27.22.4.22.4.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.1.4.2 Procedure

Expected Sequence 4.1 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Left Alignment)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.1.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.1.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with left alignment.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.1.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.1.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available

Step	Direction	Message / Action	Comments
14	Terminal → USER	Display "Idle Mode Text 2"	Message shall be formatted without left alignment. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/15, no alignment change will take place.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.1.2

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.1.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.1.

27.22.4.22.4.2 SET UP IDLE MODE TEXT (support of Text Attribute - Center Alignment)

27.22.4.22.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.2.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.2.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the center alignment text attribute configuration.

27.22.4.22.4.2.4 Method of test

27.22.4.22.4.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.2.4.2 Procedure

Expected Sequence 4.2 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Center Alignment)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.2.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.2.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with center alignment.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.2.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.2.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available
14	Terminal → USER	Display "Idle Mode Text 2"	Message shall be formatted without center alignment. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/15, no alignment change will take place.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	01	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.2.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.2.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.2.

27.22.4.22.4.3 SET UP IDLE MODE TEXT (support of Text Attribute - Right Alignment)

27.22.4.22.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.3.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.3.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the right alignment text attribute configuration.

27.22.4.22.4.3.4 Method of test

27.22.4.22.4.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.3.4.2 Procedure

Expected Sequence 4.3 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Right Alignment)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.3.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.3.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with right alignment.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.3.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.3.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available
14	Terminal → USER	Display "Idle Mode Text 2"	Message shall be formatted without right alignment. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/15, no alignment change will take place.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	02	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.3.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.3.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.3.

27.22.4.22.4.4 SET UP IDLE MODE TEXT (support of Text Attribute - Large Font Size)

27.22.4.22.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.4.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.4.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the large font size text attribute configuration.

27.22.4.22.4.4.4 Method of test

27.22.4.22.4.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.4.4.2 Procedure

Expected Sequence 4.4 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Large Font Size)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with large font size.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with normal font size.
15	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.1	Idle Mode Text.
16	Terminal → UICC	FETCH	
17	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.1	
18	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	Command performed successfully.

Step	Direction	Message / Action	Comments
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	USER → Terminal	Select idle screen	Only if idle screen not already available
21	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with large font size.
22	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.4.3	Idle Mode Text.
23	Terminal → UICC	FETCH	
24	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.3	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1	Command performed successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select idle screen	Only if idle screen not already available.
28	Terminal → USER	Display "Idle Mode Text 3"	Text is displayed with normal font size.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	04	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.2

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.4.3

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.4.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.4.

27.22.4.22.4.5 SET UP IDLE MODE TEXT (support of Text Attribute - Small Font Size)

27.22.4.22.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.5.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.5.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the small font size text attribute configuration.

27.22.4.22.4.5.4 Method of test

27.22.4.22.4.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.5.4.2 Procedure

Expected Sequence 4.5 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Small Font Size)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with small font size.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.2	Idle Mode Text.

Step	Direction	Message / Action	Comments
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available.
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with normal font size.
15	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.1	Idle Mode Text.
16	Terminal → UICC	FETCH	
17	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.1	
18	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	USER → Terminal	Select idle screen	Only if idle screen not already available.
21	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with small font size.
22	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.5.3	Idle Mode Text.
23	Terminal → UICC	FETCH	
24	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.3	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1	Command performed successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select idle screen	Only if idle screen not already available.
28	Terminal → USER	Display "Idle Mode Text" 3	Text is displayed with normal font size.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	08	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.2

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 2"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.5.3

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.5.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.5.

27.22.4.22.4.6 SET UP IDLE MODE TEXT (support of Text Attribute - Bold On)

27.22.4.22.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.6.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.6.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the bold text attribute configuration.

27.22.4.22.4.6.4 Method of test

27.22.4.22.4.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.6.4.2 Procedure

Expected Sequence 4.6 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Bold On)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with bold on.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available.
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with bold off.
15	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.1	Idle Mode Text.
16	Terminal → UICC	FETCH	
17	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.1	
18	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	USER → Terminal	Select idle screen	Only if idle screen not already available.
21	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with bold on.
22	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.6.3	Idle Mode Text.
23	Terminal → UICC	FETCH	
24	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.3	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1	Command performed successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select idle screen	Only if idle screen not already available.
28	Terminal → USER	Display "Idle Mode Text 3"	Text is displayed with bold off.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	10	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.6.3

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.6.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.6.

27.22.4.22.4.7 SET UP IDLE MODE TEXT (support of Text Attribute - Italic On)

27.22.4.22.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.7.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.7.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the italic text attribute configuration.

27.22.4.22.4.7.4 Method of test

27.22.4.22.4.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.7.4.2 Procedure

Expected Sequence 4.7 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Italic On)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with italic on.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available.
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with italic off.
15	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.1	Idle Mode Text.
16	Terminal → UICC	FETCH	
17	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.1	
18	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	USER → Terminal	Select idle screen	Only if idle screen not already available.
21	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with italic on.
22	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.7.3	Idle Mode Text.
23	Terminal → UICC	FETCH	
24	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.3	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1	Command performed successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select idle screen	Only if idle screen not already available.
28	Terminal → USER	Display "Idle Mode Text 3"	Text is displayed with italic off.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	20	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.7.3

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.7.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.7.

27.22.4.22.4.8 SET UP IDLE MODE TEXT (support of Text Attribute - Underline On)

27.22.4.22.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.8.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.8.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the underline text attribute configuration.

27.22.4.22.4.8.4 Method of test

27.22.4.22.4.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.8.4.2 Procedure

Expected Sequence 4.8 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Underline On)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with underline on.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available.
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with underline off.
15	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.1	Idle Mode Text.
16	Terminal → UICC	FETCH	
17	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.1	
18	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	USER → Terminal	Select idle screen	Only if idle screen not already available.
21	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with underline on.
22	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.8.3	Idle Mode Text.
23	Terminal → UICC	FETCH	
24	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.3	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1	Command performed successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select idle screen	Only if idle screen not already available.
28	Terminal → USER	Display "Idle Mode Text 3"	Text is displayed with underline off.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	40	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.8.3

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.8.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.8.

27.22.4.22.4.9 SET UP IDLE MODE TEXT (support of Text Attribute - Strikethrough On)

27.22.4.22.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.9.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.9.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the strikethrough text attribute configuration.

27.22.4.22.4.9.4 Method of test

27.22.4.22.4.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.9.4.2 Procedure

Expected Sequence 4.9 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Strikethrough On)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with strikethrough on.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with strikethrough off.
15	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.1	Idle Mode Text.
16	Terminal → UICC	FETCH	
17	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1	
18	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
20	USER → Terminal	Select idle screen	Only if idle screen not already available.
21	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with strikethrough on.
22	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.9.3	Idle Mode Text.
23	Terminal → UICC	FETCH	
24	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.3	
25	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1	Command performed successfully.
26	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
27	USER → Terminal	Select idle screen	Only if idle screen not already available.
28	Terminal → USER	Display "Idle Mode Text" 3	Text is displayed with strikethrough off.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 1"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	80	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.9.3

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 3"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	33						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.9.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.9.

27.22.4.22.4.10 SET UP IDLE MODE TEXT (support of Text Attribute - Foreground and Background Colour)

27.22.4.22.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.10.2 Conformance requirement

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.22, 6.6.22, 6.4.16, 6.6.16, 7.5.6, 6.8, 7.5, 7.5.1, 8.25, 8.70, 6.4.7 and 6.6.13.

27.22.4.22.4.10.3 Test purpose

To verify that the text passed to the Terminal is displayed as idle mode text according to the foreground and background colour text attribute configuration.

27.22.4.22.4.10.4 Method of test

27.22.4.22.4.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.10.4.2 Procedure

Expected Sequence 4.10 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute - Foreground and Background Colour)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.10.1	Idle Mode Text.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.10.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available
7	Terminal → USER	Display "Idle Mode Text 1"	Text is displayed with foreground and background colour according to the text attribute configuration.
8	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 4.10.2	Idle Mode Text.
9	Terminal → UICC	FETCH	
10	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.2	
11	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.10.1	Command performed successfully.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	USER → Terminal	Select idle screen	Only if idle screen not already available.
14	Terminal → USER	Display "Idle Mode Text 2"	Text is displayed with Terminal's default foreground and background colour.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Idle Mode Text 1"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	31	D0	04	00	10	00	B4

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 4.10.2

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: unpacked, 8 bit data
Text: "Idle Mode Text 2"

Coding:

BER-TLV:	D0	1C	81	03	01	28	00	82	02	81	82	8D
	11	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74	20	32						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 4.10.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.4.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.10.

27.22.4.22.5 SET UP IDLE MODE TEXT (UCS2 display in Chinese)

27.22.4.22.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.5.2 Conformance requirement

The Terminal shall support the UCS2 facility for the coding of the Chinese character, as defined in:

- ISO/IEC 10646 [2].

27.22.4.22.5.3 Test purpose

To verify that the UCS2 coded text string is displayed by the Terminal as an idle mode text.

27.22.4.22.5.4 Method of test

27.22.4.22.5.4.1 Initial conditions

The Terminal is connected to both the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.5.4.2 Procedure

Expected Sequence 5.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 5.1.1	"Hello" in Chinese.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 5.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 5.1.1	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available
7	Terminal → USER	Display "你好"	"Hello" in Chinese.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 5.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Text String
- Data coding scheme: UCS2 (16bit)
- Text: "你好"

Coding:

BER-TLV:	D0	10	81	03	01	28	00	82	02	81	82	8D
	05	08	4F	60	59	7D						

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 5.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP IDLE MODE TEXT
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 5.1.

27.22.4.22.6 SET UP IDLE MODE TEXT (UCS2 display in Katakana)

27.22.4.22.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.6.2 Conformance requirement

The Terminal shall support the UCS2 facility for the coding of the Katakana character, as defined in:

- ISO/IEC 10646 [2].

27.22.4.22.6.3 Test purpose

To verify that the UCS2 coded text string is displayed by the Terminal as an idle mode text.

27.22.4.22.6.4 Method of test

27.22.4.22.6.4.1 Initial conditions

The Terminal is connected to both the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.6.4.2 Procedure

Expected Sequence 6.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 6.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 6.1.1	
5	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
6	USER → Terminal	Select idle screen	Only if idle screen not already available.
7	Terminal → USER	Display "80ﾊﾚ0"	Characters in Katakana.

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 6.1.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Text String
Data coding scheme: UCS2 (16bit)
Text: "80ルの"

Coding:

BER-TLV:	D0	14	81	03	01	28	00	82	02	81	82	8D
	09	08	00	38	00	30	30	EB	00	30		

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 6.1.1

Logically:

Command details
Command number: 1
Command type: SET UP IDLE MODE TEXT
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00

27.22.4.22.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.1.

27.22.4.23 RUN AT COMMAND

27.22.4.23.1 RUN AT COMMAND (normal)

27.22.4.23.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, clause 8.2, 8.40, 8.31 and 8.41.
- TS 127 007 [6].

27.22.4.23.1.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.1.4 Method of test

27.22.4.23.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.1.4.2 Procedure

Expected Sequence 1.1 (RUN AT COMMAND, no alpha identifier presented, request Terminal Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 1.1.1	No alpha identifier, request Terminal Manufacturer ID.
4	Terminal (→ User)	The Terminal may give information to the user concerning what is happening	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	12	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	47	4D	49				

TERMINAL RESPONSE: RUN AT COMMAND 1.1.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

Expected Sequence 1.2 (RUN AT COMMAND, null data alpha identifier presented, request Terminal Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 1.2.1	Null data alpha identifier, request Terminal Manufacturer ID.
4	Terminal	The Terminal should not give any information to user on the fact that the Terminal is performing an AT command	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.2.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier null data object

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	14	81	03	01	34	00	82	02	81	82	85
	00	A8	07	41	54	2B	43	47	4D	49		

Expected Sequence 1.3 (RUN AT COMMAND, alpha identifier presented, request Terminal Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 1.3.1	Alpha identifier, request Terminal Manufacturer ID.
4	Terminal → USER	Display "Run AT Command"	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.3.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "Run AT Command"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0E	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	A8	07	41	54	2B	43	47	4D	49

27.22.4.23.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.23.2 RUN AT COMMAND (Icon support)

27.22.4.23.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.2.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31 and 8.41.
- TS 127 007 [6].

27.22.4.23.2.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

In addition to verify that if an icon is provided by the UICC, the icon indicated in the command may be used by the Terminal to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.23.2.4 Method of test

27.22.4.23.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

The Terminal screen shall be in its normal stand-by display.

27.22.4.23.2.4.2 Procedure

Expected Sequence 2.1A (RUN AT COMMAND, basic icon self explanatory, request Terminal Manufacturer ID, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	BASIC-ICON, self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display BASIC ICON without the alpha identifier	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	Command performed successfully, AT response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE COMMAND: RUN AT COMMAND 2.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha identifier: "Basic Icon"

AT Command
- AT Command string: "AT+CGMI"

Icon identifier:
- Icon qualifier: icon is self-explanatory
- Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0A	42	61	73	69	63	20	49	63	6F	6E	A8
	07	41	54	2B	43	47	4D	49	9E	02	00	01

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

Expected Sequence 2.1B (RUN AT COMMAND, basic icon self explanatory, request Terminal Manufacturer ID, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	BASIC-ICON, self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display 'Basic Icon' without the BASIC-ICON	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	Command performed but requested icon could not be displayed, AT response containing Terminal Manufacturer ID as stated in A.2/28.

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
General Result: Command performed successfully, but requested icon could not be displayed

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	04
	A9	LL	XX	…	…	XX						

Expected Sequence 2.2A (RUN AT COMMAND, colour icon self explanatory, request Terminal Manufacturer ID, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	COLOUR-ICON, self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display COLOUR-ICON without the alpha identifier	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	Command performed successfully, AT response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE COMMAND: RUN AT COMMAND 2.2.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha identifier: "Colour Icon"

AT Command
AT Command string: "AT+CGMI"

Icon identifier:
Icon qualifier: icon is self-explanatory
Icon identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	A8
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	A8	07	41	54	2B	43	47	4D	49	9E	02	00
	02											

Expected Sequence 2.2B (RUN AT COMMAND, colour icon self explanatory, request Terminal Manufacturer ID, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	COLOUR-ICON, self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display 'Colour Icon' without the COLOUR-ICON	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	Command performed but requested icon could not be displayed, AT response containing Terminal Manufacturer ID as stated in A.2/28.

Expected Sequence 2.3A (RUN AT COMMAND, basic icon non self-explanatory, request Terminal Manufacturer ID, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	BASIC-ICON, non self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display "Basic Icon" and BASIC-ICON	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	Command performed successfully, AT response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE COMMAND: RUN AT COMMAND 2.3.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha identifier: "Basic Icon"

AT Command
- AT Command string: "AT+CGMI"

Icon identifier
- Icon qualifier: icon is non self-explanatory
- Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0A	42	61	73	69	63	20	49	63	6F	6E	A8
	07	41	54	2B	43	47	4D	49	9E	02	01	01

Expected Sequence 2.3B (RUN AT COMMAND, basic icon non self-explanatory, request Terminal Manufacturer ID, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	BASIC-ICON, non self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display "Basic Icon" without BASIC-ICON	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	Command performed but requested icon could not be displayed, AT response containing Terminal Manufacturer ID as stated in A.2/28.

Expected Sequence 2.4A (RUN AT COMMAND, colour icon non self-explanatory, request Terminal Manufacturer ID, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	COLOUR-ICON, non self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display "Colour Icon" and COLOUR-ICON	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	Command performed successfully, AT response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE COMMAND: RUN AT COMMAND 2.4.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha identifier: "Colour Icon"

AT Command
- AT Command string: "AT+CGMI"

Icon identifier:
- Icon qualifier: icon is self-explanatory
- Icon identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	A8	07	41	54	2B	43	47	4D	49	9E	02	01
	02											

Expected Sequence 2.4B (RUN AT COMMAND, colour icon non self-explanatory, request Terminal Manufacturer ID, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	COLOUR-ICON, non self-explanatory, request Terminal Manufacturer ID.
4	Terminal → USER	Display "Colour Icon" without COLOUR-ICON	
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	Command performed but requested icon could not be displayed, AT response containing Terminal Manufacturer ID as stated in A.2/28.

Expected Sequence 2.5 (RUN AT COMMAND, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 2.5.1	BASIC-ICON, non self-explanatory.
4	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.5.1	Command data not understood by Terminal.

PROACTIVE COMMAND: RUN AT COMMAND 2.5.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

AT Command
- AT Command string: "AT+CGMI"

Icon identifier
- Icon qualifier: icon is non self-explanatory
- Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	16	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	47	4D	49	9E	02	01	01

TERMINAL RESPONSE: RUN AT COMMAND 2.5.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Result
General Result: Command data not understood by Terminal

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	32

27.22.4.23.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 2.1 to 2.5.

27.22.4.23.3 RUN AT COMMAND (support of Text Attribute)

27.22.4.23.3.1 RUN AT COMMAND (support of Text Attribute - Left Alignment)

27.22.4.23.3.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.1.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.1.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with left alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.1.4 Method of test

27.22.4.23.3.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.1.4.2 Procedure

Expected Sequence 3.1 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.1.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with left alignment, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.1.2	
10	Terminal → USER	Display "Run AT Command 2"	Message shall be formatted without left alignment, request Terminal Manufacturer ID. Remark: If left alignment is the Terminal's default alignment as declared in table A.2/16, no alignment change will take place.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off,
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.1.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.1.

27.22.4.23.3.2 RUN AT COMMAND (support of Text Attribute - Center Alignment)

27.22.4.23.3.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.2.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.2.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with center alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.2.4 Method of test

27.22.4.23.3.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.2.4.2 Procedure

Expected Sequence 3.2 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.2.1	.
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with center alignment, request Terminal Manufacturer ID
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.2.2	

Step	Direction	MESSAGE / Action	Comments
10	Terminal → USER	Display "Run AT Command 2"	Message shall be formatted without center alignment, request Terminal Manufacturer ID. Remark: If center alignment is the Terminal's default alignment as declared in table A.2/16, no alignment change will take place.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.2.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	01	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.2.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.2.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.2.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.2.

27.22.4.23.3.3 RUN AT COMMAND (support of Text Attribute - Right Alignment)

27.22.4.23.3.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.3.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.3.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with right alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.3.4 Method of test

27.22.4.23.3.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.3.4.2 Procedure

Expected Sequence 3.3 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.3.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.3.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with right alignment, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.3.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.3.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.3.2	
10	Terminal (→ USER)	Display "Run AT Command 2"	Message shall be formatted without right alignment, request Terminal Manufacturer ID. Remark: If right alignment is the Terminal's default alignment as declared in table A.2/16, no alignment change will take place.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.3.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.3.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "Run AT Command 1"

AT Command
AT Command string: "AT+CGMI"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	02	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.3.2

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha Identifier "Run AT Command 2"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.3.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.3.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.3.

27.22.4.23.3.4 RUN AT COMMAND (support of Text Attribute - Large Font Size)

27.22.4.23.3.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.4.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.4.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with large font size as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.4.4 Method of test

27.22.4.23.3.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.4.4.2 Procedure

Expected Sequence 3.4 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.4.1	
4	Terminal → USER	Display "Run AT Command 1'	Alpha identifier is displayed with large font size, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

Step	Direction	MESSAGE / Action	Comments
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.4.2	
10	Terminal → USER	Display "Run AT Command 2'	Alpha identifier is displayed with normal font size, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.4.1	.
16	Terminal → USER	Display "Run AT Command 1'	Alpha identifier is displayed with large font size, request Terminal Manufacturer ID
17	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.4.3	
22	Terminal → USER	Display "Run AT Command 3'	Alpha identifier is displayed with normal font size, request Terminal Manufacturer ID.
23	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "Run AT Command 1"

AT Command

AT Command string: "AT+CGMI"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	04	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.2

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha Identifier "Run AT Command 2"

AT Command
AT Command string: "AT+CGMI"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.3

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha Identifier "Run AT Command 3"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.4.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.4.

27.22.4.23.3.5 RUN AT COMMAND (support of Text Attribute - Small Font Size)

27.22.4.23.3.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.5.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.5.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with small font size as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.5.4 Method of test

27.22.4.23.3.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.5.4.2 Procedure

Expected Sequence 3.5 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with small font size, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.5.2	
10	Terminal → USER	Display "Run AT Command 2"	Alpha identifier is displayed with normal font size, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	
16	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with small font size, request Terminal Manufacturer ID.
17	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.5.3	

Step	Direction	MESSAGE / Action	Comments
22	Terminal → USER	Display "Run AT Command 3"	Alpha identifier is displayed with normal font size, request Terminal Manufacturer ID.
23	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	08	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.3

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier

Alpha Identifier "Run AT Command 3"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.5.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.5.

27.22.4.23.3.6 RUN AT COMMAND (support of Text Attribute - Bold On)

27.22.4.23.3.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.6.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.6.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with bold text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.6.4 Method of test

27.22.4.23.3.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.6.4.2 Procedure

Expected Sequence 3.6 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with bold on, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.2	
8	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.6.2	
10	Terminal → USER	Display "Run AT Command 2"	Alpha identifier is displayed with bold off, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	
16	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with bold on, request Terminal Manufacturer ID.
17	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.6.3	
22	Terminal → USER	Display "Run AT Command 3"	Alpha identifier is displayed with bold off, request Terminal Manufacturer ID.
23	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	10	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.3

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 3"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.6.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.6.

27.22.4.23.3.7 RUN AT COMMAND (support of Text Attribute - Italic On)

27.22.4.23.3.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.7.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.7.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with italic text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.7.4 Method of test

27.22.4.23.3.7.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.7.4.2 Procedure

Expected Sequence 3.7 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.7.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with italic on, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.7.2	
10	Terminal → USER	Display "Run AT Command 2"	Alpha identifier is displayed with italic off, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.7.1	
16	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with italic on, request Terminal Manufacturer ID.
17	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.7.3	

Step	Direction	MESSAGE / Action	Comments
22	Terminal → USER	Display "Run AT Command 3"	Alpha identifier is displayed with italic off, request Terminal Manufacturer ID.
23	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	20	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
Formatting position: 0
Formatting length: 16
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.3

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha Identifier "Run AT Command 3"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.7.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.7.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.7.

27.22.4.23.3.8 RUN AT COMMAND (support of Text Attribute - Underline On)

27.22.4.23.3.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.8.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.8.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with underline text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.8.4 Method of test

27.22.4.23.3.8.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.8.4.2 Procedure

Expected Sequence 3.8 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.8.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with underline on, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.2	
8	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.8.2	
10	Terminal → USER	Display "Run AT Command 2"	Alpha identifier is displayed with underline off, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.8.1	
16	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with underline on, request Terminal Manufacturer ID.
17	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.8.3	
22	Terminal → USER	Display "Run AT Command 3"	Alpha identifier is displayed with underline off, request Terminal Manufacturer ID.
23	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	40	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.3

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 3"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.8.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.8.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.8.

27.22.4.23.3.9 RUN AT COMMAND (support of Text Attribute - Strikethrough On)

27.22.4.23.3.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.9.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.9.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with strikethrough text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.9.4 Method of test

27.22.4.23.3.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.9.4.2 Procedure

Expected Sequence 3.9 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.9.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with strikethrough on, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.9.2	
10	Terminal → USER	Display "Run AT Command 2"	Alpha identifier is displayed with strikethrough off, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
13	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.9.1	
16	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with strikethrough on, request Terminal Manufacturer ID.
17	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
18	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
19	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3	
20	Terminal → UICC	FETCH	
21	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.9.3	
22	Terminal → USER	Display "Run AT Command 3"	Alpha identifier is displayed with strikethrough off, request Terminal Manufacturer ID.
23	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
24	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	80	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.3

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha Identifier "Run AT Command 3"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	33	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.9.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.9.

27.22.4.23.3.10 RUN AT COMMAND (support of Text Attribute - Foreground and Background Colour)

27.22.4.23.3.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.10.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.3.10.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with foreground and background colour text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.10.4 Method of test

27.22.4.23.3.10.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.10.4.2 Procedure

Expected Sequence 3.10 (RUN AT COMMAND, with alpha identifier presented, request Terminal Manufacturer ID, Text Attribute - Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.10.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.10.1	
4	Terminal → USER	Display "Run AT Command 1"	Alpha identifier is displayed with foreground and background colour according to the text attribute configuration, request Terminal Manufacturer ID.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.10.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
6	UICC → Terminal	PROACTIVE UICC SESSION ENDED	
7	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.10.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 3.10.2	
10	Terminal → USER	Display "Run AT Command 2"	Alpha identifier is displayed with Terminal's default foreground and background colour, request Terminal Manufacturer ID.
11	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.10.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.
12	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.10.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 1"

AT Command
- AT Command string: "AT+CGMI"

Text Attribute
- Formatting position: 0
- Formatting length: 16
- Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
- Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	2A	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	31	A8	07	41	54	2B	43	47
	4D	49	D0	04	00	10	00	B4				

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.10.2

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier: "Run AT Command 2"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	10	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	20	32	A8	07	41	54	2B	43	47
	4D	49										

TERMINAL RESPONSE: RUN AT COMMAND 3.10.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.3.10.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 3.10.

27.22.4.23.4 RUN AT COMMAND (UCS2 display in Cyrillic)

27.22.4.23.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.4.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.4.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.4.4 Method of test

27.22.4.23.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.4.4.2 Procedure

Expected Sequence 4.1 (RUN AT COMMAND, alpha identifier presented coded with UCS2 in Cyrillic, request Terminal Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 4.1.1	Alpha identifier, request Terminal Manufacturer ID.
4	Terminal → USER	Display "ЗДРАВСТВУЙТЕ"	"Hello" in Russian.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 4.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE UICC COMMAND: RUN AT COMMAND 4.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "ЗДРАВСТВУЙТЕ"

AT Command
- AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	21	81	03	01	34	00	82	02	81	82	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	A8	07	41	54	2B	43	47	4D	49	

TERMINAL RESPONSE: RUN AT COMMAND 4.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.4.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 4.1.

27.22.4.23.5 RUN AT COMMAND (UCS2 display in Chinese)

27.22.4.23.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.5.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.5.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.5.4 Method of test

27.22.4.23.5.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.5.4.2 Procedure

Expected Sequence 5.1 (RUN AT COMMAND, alpha identifier presented coded with UCS2 in Chinese, request Terminal Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 5.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 5.1.1	Alpha identifier, request Terminal Manufacturer ID.
4	Terminal → USER	Display "你好"	"Hello" in Chinese.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 5.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE UICC COMMAND: RUN AT COMMAND 5.1.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier
Alpha Identifier "你好"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	19	81	03	01	34	00	82	02	81	82	85
	05	80	4F	60	59	7D	A8	07	41	54	2B	43
	47	4D	49									

TERMINAL RESPONSE: RUN AT COMMAND 5.1.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.5.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 5.1.

27.22.4.23.6 RUN AT COMMAND (UCS2 display in Katakana)

27.22.4.23.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.6.2 Conformance requirement

The Terminal shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 102 223 [1], clauses 6.4.23, 6.6.23, 5.2, 6.8, 8.6, 8.7, 8.2, 8.40, 8.31, 8.41 and 8.70.
- TS 127 007 [6].

The terminal shall support the text attribute.

27.22.4.23.6.3 Test purpose

To verify that the Terminal responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.6.4 Method of test

27.22.4.23.6.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the Terminal shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.6.4.2 Procedure

Expected Sequence 6.1 (RUN AT COMMAND, alpha identifier presented coded with UCS2 in Katakana, request Terminal Manufacturer ID)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: RUN AT COMMAND 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: RUN AT COMMAND 6.1.1	Alpha identifier, request Terminal Manufacturer ID.
4	Terminal → USER	Display "80ルル"	Characters in Katakana.
5	Terminal → UICC	TERMINAL RESPONSE: RUN AT COMMAND 6.1.1	Command performed successfully, AT Response containing Terminal Manufacturer ID as stated in A.2/28.

PROACTIVE UICC COMMAND: RUN AT COMMAND 6.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier
- Alpha Identifier "80ルル"

AT Command
AT Command string: "AT+CGMI"

Coding:

BER-TLV:	D0	1B	81	03	01	34	00	82	02	81	82	85
	07	80	00	38	00	30	30	EB	A8	07	41	54
	2B	43	47	4D	49							

TERMINAL RESPONSE: RUN AT COMMAND 6.1.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

AT Response
AT Response string: Terminal Manufacture ID

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	LL	XX	…	…	XX						

27.22.4.23.6.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 6.1.

27.22.4.24 SEND DTMF

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.25 LANGUAGE NOTIFICATION

27.22.4.25.1 Definition and applicability

See clause 3.2.2.

27.22.4.25.2 Conformance Requirement

The Terminal shall conclude the command by sending TERMINAL RESPONSE (OK) to the UICC, as soon as possible after receiving the LANGUAGE NOTIFICATION proactive UICC command.

- TS 102 223 [1], clauses 6.4.25 and 6.6.25.

27.22.4.25.3 Test purpose

To verify that the Terminal shall send a TERMINAL RESPONSE (OK) to the UICC after the Terminal receives the LANGUAGE NOTIFICATION proactive UICC command.

27.22.4.25.4 Method of Test

27.22.4.25.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.25.4.2 Procedure

Expected Sequence 1.1 (LANGUAGE NOTIFICATION)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1	Language specified in the command is different from the one set on the Terminal.
4	Terminal → UICC	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1	Command performed successfully.
5	UICC→ Terminal	PROACTIVE UICC SESSION ENDED	Language of Terminal may have been replaced by the one specified in LANGUAGE NOTIFICATION 1.1.1

PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1

Logically:

Command details
- Command number: 1
- Command type: LANGUAGE NOTIFICATION
- Command qualifier: "01" (specific language notification)

Device identities
- Source device: UICC
- Destination device: Terminal

Language
- Language: 'se'(Spanish) → 73 65 or 'de'→64 65 (German) for instance: choose a language different from the one initially set on the Terminal to check the proper execution of the command

Coding:

BER-TLV:	D0	0D	81	03	01	35	01	82	02	81	82	AD
	02	73	65									

TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1

Logically:

Command details
- Command number: 1
- Command type: LANGUAGE NOTIFICATION
- Command qualifier: "01"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	35	01	82	02	82	81	83	01	00

Expected Sequence 1.2 (LANGUAGE NOTIFICATION)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1	Language specified in the command is different from the one set on the Terminal.
4	Terminal → UICC	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1	Command performed successfully.
5	UICC → Terminal	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.2.1	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.2.1	
8	Terminal → UICC	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.2.1	Command performed successfully.
9	UICC → Terminal	PROACTIVE UICC SESSION ENDED	Check that initial language is set.

PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.2.1

Logically:

Command details
Command number: 1
Command type: LANGUAGE NOTIFICATION
Command qualifier: "00" (non specific language notification)

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	35	00	82	02	81	82

TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.2.1

Logically:

Command details
Command number: 1
Command type: LANGUAGE NOTIFICATION
Command qualifier: "00"

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	35	00	82	02	82	81	83	01	00

27.22.4.25.5 Test requirement

The Terminal shall operate in the manner defined in expected sequences 1.1 and 1.2.

27.22.4.26 LAUNCH BROWSER

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.27 OPEN CHANNEL

27.22.4.27.1 Void

27.22.4.27.2 Open Channel (related to GPRS)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.27.3 Open Channel (default bearer)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.27.4 Open Channel (Local Bearer)

TBD

27.22.4.27.5 Open Channel (GPRS, support of Text Attribute)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.27.6 Open Channel (related to UICC Server Mode)

27.22.4.27.6.1 Open Channel (related to UICC Server Mode)

27.22.4.27.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.6.1.2 Conformance requirements

The mobile shall support class "e" commands as defined in:

- TS 102 223 [1], clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.27.6.1.3 Test purpose

To verify that the Terminal shall send a:

- TERMINAL RESPONSE (OK);
- TERMINAL RESPONSE (Command performed with modification);

to the UICC after the terminal receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the terminal capabilities against requested parameters by the UICC.

27.22.4.27.6.1.4 Method of test

27.22.4.27.6.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Channel Identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the terminal's default channel identifier as declared in table A.2/27.

Prior to test case execution the apparatus supplier shall have provided the "Preferred buffer size supported by the terminal for Open Channel command" as requested in table A.2/29.

27.22.4.27.6.1.4.2 Procedure

Expected Sequence 6.1 (OPEN CHANNEL, TCP in LISTEN state, successful)

Step	Direction	MESSAGE/Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: OPEN CHANNEL 6.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state

PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier: Null

Buffer
- Buffer size: 1400

UICC/terminal interface transport level
- Transport format: TCP, UICC in server mode
- Port number: 3516

Coding:

BER-TLV:	D0	14	81	03	01	40	00	82	02	81	82	05
	00	39	02	05	78	3C	03	03	0D	BC		

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in LISTEN state

Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	41	00	39	02	05	78				

Expected Sequence 6.2 (OPEN CHANNEL, TCP in LISTEN state, command performed with modification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.2.1	
4	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.2.1	[Command performed with modification] TCP in LISTEN state

PROACTIVE COMMAND: OPEN CHANNEL 6.2.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier Null

Buffer
Buffer size: 65535

UICC/terminal interface transport level
Transport format: TCP, UICC in server mode
Port number: 3516

Coding:

BER-TLV:	D0	14	81	03	01	40	00	82	02	81	82	05
	00	39	02	FF	FF	3C	03	03	0D	BC		

TERMINAL RESPONSE: OPEN CHANNEL 6.2.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed with modifications (07)

Channel status Channel identifier 1 and TCP in LISTEN state

Buffer
- Buffer size: The buffer size TLV shall be attached and contain the value stated in table A.2/29 "Preferred buffer size supported by the terminal for Open Channel command".

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	07
	38	02	41	00	see note							

NOTE: The buffer size TLV shall be attached and contain the value stated in table A.2/29 "Preferred buffer size supported by the terminal for Open Channel command".

Expected Sequence 6.3 (Void)

27.22.4.27.7 Open Channel (related to Terminal Server Mode)

27.22.4.27.7.1 Open Channel (related to Terminal Server Mode)

27.22.4.27.7.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.7.1.2 Conformance requirements

The mobile shall support class "e" and class "k" commands as defined in:

- TS 102 223 [1], clause 5.2, clauses 6.4.27, 6.6.27, 8.6, 8.7, 8.55, 8.56 and 8.59.
- TS 102 223 [1], clauses 6.4.27, 7.8, 8.8 and 8.87.

27.22.4.27.7.1.3 Test purpose

To verify that the Terminal shall send a:

- TERMINAL RESPONSE (OK);

- TERMINAL RESPONSE (Command performed with modification);

to the UICC after the terminal receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the terminal capabilities against requested parameters by the UICC.

27.22.4.27.7.1.4 Method of test

27.22.4.27.7.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Service "Terminal Applications" is available in the Service Table provided by the NAA.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Channel Identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the terminal's default channel identifier as declared in table A.2/27.

The Terminal has sent the ENVELOPE (TERMINAL APPLICATIONS) containing at least one application. For the purpose of this test procedure, we will consider the example of an e-mail application.

The Port number value used for these tests is set to '1111' as an example. This value is related to the Application Port number value declared by the Terminal when registering the 'e-mail' application.

27.22.4.27.7.1.4.2 Procedure

Expected Sequence 7.1 (OPEN CHANNEL, Terminal Server Mode and TCP, successful)

Step	Direction	MESSAGE/Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 7.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: OPEN CHANNEL 7.1.1	
4	Terminal	Activation of 'e-mail' application	[The 'e-mail' application is launched successfully]
5	Terminal → UICC	TERMINAL RESPONSE: OPEN CHANNEL 7.1.1	[Command performed successfully] TCP in ESTABLISHED state

PROACTIVE COMMAND: OPEN CHANNEL 7.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Buffer
- Buffer size: 1400

UICC/terminal interface transport level
- Transport format: TCP, UICC in client mode, local connection
- Port number: '1111'

Coding:

BER-TLV:	D0	12	81	03	01	40	00	82	02	81	82	39
	02	05	78	3C	03	05	11	11				

TERMINAL RESPONSE: OPEN CHANNEL 7.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in ESTABLISHED state

Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	81	00	39	02	05	78				

Expected Sequence 7.2 (OPEN CHANNEL, Terminal Server Mode and UDP, successful)

Step	Direction	MESSAGE/Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 7.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: OPEN CHANNEL 7.2.1	
4	Terminal	Activation of 'e-mail' application	[The 'e-mail' application is launched successfully]
5	Terminal → UICC	TERMINAL RESPONSE: OPEN CHANNEL 7.2.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 7.2.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Buffer
Buffer size: 1400

UICC/terminal interface transport level
Transport format: UDP, UICC in client mode, local connection
Port number: '1111'

Coding:

BER-TLV:	D0	12	81	03	01	40	00	82	02	81	82	39
	02	05	78	3C	03	04	11	11				

TERMINAL RESPONSE: OPEN CHANNEL 7.2.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel status Channel identifier 1

Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	01	00	39	02	05	78				

27.22.4.28 CLOSE CHANNEL

27.22.4.28.1 CLOSE CHANNEL (related to GPRS)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.28.2 CLOSE CHANNEL (support of Text Attribute)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.28.3 CLOSE CHANNEL (related to UICC Server Mode)

27.22.4.28.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.3.2 Conformance requirements

The Terminal shall support the class "e" commands as defined in:

- TS 102 223 [1].

27.22.4.28.3.3 Test purpose

To verify that the Terminal shall send a:

- TERMINAL RESPONSE (Command Performed Successfully)

to the UICC after the Terminal receives the CLOSE CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the Terminal capabilities against asked parameters by the UICC.

27.22.4.28.3.4 Method of Test

27.22.4.28.3.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Channel Identifier value used for these tests is set to 1 as an example.

This Channel Identifier is dependent on the Terminal default channel identifier as declared in table A.2/27.

27.22.4.28.3.4.2 Procedure

Expected sequence 3.1 (CLOSE CHANNEL, go to "TCP in LISTEN state", successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
4	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
5	UICC → Terminal	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.1.1	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1	TCP in LISTEN state
8	Terminal → UICC	TERMINAL RESPONSE CLOSE CHANNEL 3.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier: Null

Buffer
- Buffer size: 1400

UICC/terminal interface transport level
- Transport format: TCP, UICC in server mode
- Port number: 3516

Coding:

BER-TLV:	D0	14	81	03	01	40	00	82	02	81	82	05
	00	39	02	05	78	3C	03	03	0D	BC		

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully
- Channel status: Channel identifier 1 and TCP in LISTEN state

Buffer
- Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	41	00	39	02	05	78				

PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: close the TCP connection and go to "TCP in LISTEN state"

Device identities
- Source device: UICC
- Destination device: Channel 1

Coding:

BER-TLV:	D0	09	81	03	01	41	01	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: close the TCP connection and go to "TCP in LISTEN state"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	01	82	02	82	81	83	01	00

Expected sequence 3.2 (CLOSE CHANNEL, go to "TCP in CLOSED state", successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
4	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
5	UICC → Terminal	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.2.1	
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1	TCP in CLOSED state
8	Terminal → UICC	TERMINAL RESPONSE CLOSE CHANNEL 3.2.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: close the TCP connection and go to "TCP in CLOSED state"

Device identities
- Source device: UICC
- Destination device: Channel 1

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 3.2.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: close the TCP connection and go to "TCP in CLOSED state"

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.4 CLOSE CHANNEL (related to Terminal Server Mode)

27.22.4.28.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.4.2 Conformance requirements

The Terminal shall support the class "e" and "k" commands as defined in:

- TS 102 223 [1].

27.22.4.28.4.3 Test purpose

To verify that the Terminal shall send a:

- TERMINAL RESPONSE (Command Performed Successfully);

to the UICC after the Terminal receives the CLOSE CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the Terminal capabilities against asked parameters by the UICC.

To verify that closing a channel (using the Close Channel command) shall not close terminal applications launched by opening the channel in Terminal Server Mode. The Close Channel command shall only close the communication channel between the UICC and the application.

27.22.4.28.4.4 Method of Test

27.22.4.28.4.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Service "Terminal Applications" is available in the Service Table provided by the NAA.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Channel Identifier value used for these tests is set to 1 as an example.

This Channel Identifier is dependent on the Terminal default channel identifier as declared in table A.2/27.

The Terminal has sent the ENVELOPE (TERMINAL APPLICATIONS) containing at least one application. For the purpose of this test procedure, we will consider the example of an e-mail application.

The Port number value used for these tests is set to '1111' as an example. This value is related to the Application Port number value declared by the Terminal when registering the 'e-mail' application.

27.22.4.28.4.4.2 Procedure

Expected sequence 4.1 (CLOSE CHANNEL, Terminal Server Mode, successful)

Step	Direction	MESSAGE/Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 4.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: OPEN CHANNEL 4.1.1	
4	Terminal	Activation of 'e-mail' application	[The 'e-mail' application be launched successfully]
5	Terminal → UICC	TERMINAL RESPONSE: OPEN CHANNEL 4.1.1	[Command performed successfully] TCP in ESTABLISHED state
6	UICC → Terminal	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 4.1.1	
7	Terminal → UICC	FETCH	
8	UICC → Terminal	PROACTIVE COMMAND: CLOSE CHANNEL 4.1.1	
9	Terminal → UICC	TERMINAL RESPONSE CLOSE CHANNEL 4.1.1	[Command performed successfully] [The 'e-mail' application shall not be closed by the Terminal]

PROACTIVE COMMAND: OPEN CHANNEL 4.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Buffer
Buffer size: 1400

UICC/terminal interface transport level
Transport format: TCP, UICC in client mode, local connection
Port number: '1111'

Coding:

BER-TLV:	D0	12	81	03	01	40	00	82	02	81	82	39
	02	05	78	3C	03	05	11	11				

TERMINAL RESPONSE: OPEN CHANNEL 4.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in ESTABLISHED state

Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	81	00	39	02	05	78				

PROACTIVE COMMAND: CLOSE CHANNEL 4.1.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Channel 1

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 4.1.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.29 RECEIVE DATA

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.30 SEND DATA

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.31 GET CHANNEL STATUS

27.22.4.31.1 GET CHANNEL STATUS (related to GPRS)

The test method is not defined in the present document as it depends on a present NAA.

27.22.4.31.2 GET CHANNEL STATUS (related to UICC server mode)

27.22.4.31.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.31.2.2 Conformance requirements

The terminal shall support the class "e" commands as defined in:

- TS 102 223 [1].

27.22.4.31.2.3 Test purpose

To verify that the Terminal shall send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC after the Terminal receives the GET STATUS proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the Terminal capabilities against asked parameters by the UICC.

27.22.4.31.2.4 Method of test

27.22.4.31.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.31.2.4.2 Procedure

Expected sequence 2.1 (GET CHANNEL STATUS, in LISTEN state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
4	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
5	UICC → Terminal	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 2.1.1	TCP in LISTEN state
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND: GET CHANNEL STATUS 2.1.1	
8	Terminal → UICC	TERMINAL RESPONSE GET CHANNEL STATUS 2.1.1A OR TERMINAL RESPONSE GET CHANNEL STATUS 2.1.1B	[Command performed successfully] TCP in LISTEN state for channel 1

PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier: Null

Buffer
- Buffer size: 1400

UICC/terminal interface transport level
- Transport format: TCP, UICC in server mode
- Port number: 3516

Coding:

BER-TLV:	D0	14	81	03	01	40	00	82	02	81	82	05
	00	39	02	05	78	3C	03	03	0D	BC		

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and TCP in LISTEN state

Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	41	00	39	02	05	78				

PROACTIVE COMMAND: GET CHANNEL STATUS 2.1.1

Logically:

Command details
Command number: 1
Command type: GET CHANNEL STATUS
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET CHANNEL STATUS 2.1.1A

Logically:

Command details
Command number: 1
Command type: GET CHANNEL STATUS
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in LISTEN state

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	41	00								

TERMINAL RESPONSE: GET CHANNEL STATUS 2.1.1B

Logically:

Command details
Command number: 1
Command type: GET CHANNEL STATUS

Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel 1 status Channel identifier 1 and TCP in LISTEN state

Channel 2 status Channel identifier 2 and TCP in CLOSED state

...

Channel n status Channel identifier n and TCP in CLOSED state

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	See note.											

NOTE: The Terminal Response contains as many channel status TLVs as channels are supported by the ME. The channel status TLV coding of the opened channel states "TCP in LISTEN state". Each other channel status TLV coding indicates the corresponding channel identifier and states "TCP in CLOSED state". As an example, if the mobile supports two channels and channel 1 is opened then the corresponding channel status data objects coding would be : 'B8 02 41 00 B8 02 02 00'.

Expected sequence 2.2 (GET CHANNEL STATUS, in ESTABLISHED state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 2.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 2.2.1	[EVENT: channel status]
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 2.2.1	[command performed successfully]
5	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
8	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
9	User → Terminal	Client application connection	
10	Terminal → UICC	ENVELOPE 2.2.1 (Event-Channel Status)	TCP in ESTABLISHED state
11	UICC → Terminal	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 2.2.1	TCP in ESTABLISHED state
12	Terminal → UICC	FETCH	
13	UICC → Terminal	PROACTIVE COMMAND: GET CHANNEL STATUS 2.2.1	
14	Terminal → UICC	TERMINAL RESPONSE GET CHANNEL STATUS 2.2.1A OR TERMINAL RESPONSE GET CHANNEL STATUS 2.2.1B	[[Command performed successfully] TCP in ESTABLISHED state for channel 1

PROACTIVE COMMAND: SET UP EVENT LIST 2.2.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: Channel Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	0A								

TERMINAL RESPONSE: SET UP EVENT LIST 2.2.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE: EVENT DOWNLOAD - Channel Status 2.2.1

Logically:

Event list
Event: Channel Status

Device identities
Source device: Terminal
Destination device: UICC

Channel status
Channel status: Channel 1, TCP in ESTABLISHED state, no further info can be given

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	38	02	81
	00											

PROACTIVE COMMAND: GET CHANNEL STATUS 2.2.1

Logically:

Command details
Command number: 1
Command type: GET CHANNEL STATUS
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET CHANNEL STATUS 2.2.1A

Logically:
Command details
Command number: 1
Command type: GET CHANNEL STATUS
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in ESTABLISHED state

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	81	00								

TERMINAL RESPONSE: GET CHANNEL STATUS 2.2.1B

Logically:

Command details
Command number: 1
Command type: GET CHANNEL STATUS
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Channel 1 status Channel identifier 1 and TCP in ESTABLISHED state

Channel 2 status Channel identifier 2 and TCP in CLOSED state

...

Channel n status Channel identifier n and TCP in CLOSED state

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	See note.											

NOTE: The Terminal Response contains as many channel status TLVs as channels are supported by the ME. The channel status TLV coding of the opened channel states "TCP in ESTABLISHED state". Each other channel status TLV coding indicates the corresponding channel identifier and states "TCP in CLOSED state". As an example, if the mobile supports two channels and channel 1 is opened then the corresponding channel status data objects coding would be : 'B8 02 81 00 B8 02 02 00'.

27.22.5 Void

27.22.6 CALL CONTROL BY NAA

27.22.6.1 Procedure for Terminal Originated calls

The test method is not defined in the present document as it depends on a present NAA.

27.22.6.2 Void

27.22.6.3 Interaction with Fixed Dialling Number (FDN)

The test method is not defined in the present document as it depends on a present NAA.

27.22.7 EVENT DOWNLOAD

27.22.7.1 MT Call Event

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.2 Call Connected Event

27.22.7.2.1 Call Connected Event (MT and MO call)

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.3 Call Disconnected Event

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.4 Location Status Event

27.22.7.4.1 Location Status Event (normal)

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.5 User Activity Event

27.22.7.5.1 User Activity Event (normal)

27.22.7.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.5.1.2 Conformance Requirement

The Terminal shall support the EVENT DOWNLOAD -USER ACTIVITY as defined in:

- TS 102 223 [1], clauses 5.2, 6.4.16, 6.8, 6.6.16, 6.11, 7.5, 8.6 and 8.25.

27.22.7.5.1.3 Test purpose

To verify that the Terminal performed correctly the procedure of USER ACTIVITY EVENT.

27.22.7.5.1.4 Method of Test

27.22.7.5.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

27.22.7.5.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -USER ACTIVITY)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	Set up event list: event User Activity.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	Set up event list: event User Activity.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	Command performed successfully.
5	USER → Terminal	press any key	
6	Terminal → UICC	ENVELOPE EVENT DOWNLOAD -USER ACTIVITY 1.1.1	
7	USER → Terminal	press any key	check if no envelope Event Download-User activity sending to the UICC (this event is reported once).

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Event list: User Activity

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	04										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD -USER ACTIVITY 1.1.1

Logically:

Event list: User Activity

Device identities
- Source device: Terminal
- Destination device: UICC

Coding:

BER-TLV:	D6	07	19	01	04	82	02	82	81

27.22.7.5.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.7.6 Idle screen available event

27.22.7.6.1 Idle Screen Available (normal)

27.22.7.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.6.1.2 Conformance requirement

The Terminal shall support the EVENT: IDLE SCREEN AVAILABLE event as defined in:

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.16, 6.8, 7.5, and 8.25.

27.22.7.6.1.3 Test purpose

To verify that the Terminal informs the UICC that an Event: Idle Screen Available has occurred using the ENVELOPE (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE) command.

27.22.7.6.1.4 Method of test

27.22.7.6.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.7.6.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE)

Step	Direction	MESSAGE / Action	Comments
1	USER → Terminal	Select screen other than the Terminal idle screen	
2	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	Set up event list: idle screen available.
3	Terminal → UICC	FETCH	
4	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	Set up event list: idle screen available.
5	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	Command performed successfully.
6	USER → Terminal	Select Terminal idle screen	
7	Terminal → UICC	ENVELOPE: IDLE SCREEN AVAILABLE 1.1.1	
8	USER → Terminal	Select screen other than the ME idle screen	
9	USER → Terminal	Select Terminal idle screen	
10	Terminal → UICC	ENVELOPE: IDLE SCREEN AVAILABLE shall not be sent to the UICC	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: UICC
- Destination device: Terminal

Event list
- Event 1: idle screen available

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	05										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - IDLE SCREEN AVAILABLE 1.1.1

Logically:

Event list: Idle screen available

Device identities
- Source device: Display
- Destination device: UICC

Coding:

BER-TLV:	D6	07	19	01	05	82	02	02	81

27.22.7.6.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.7.7 Card reader status event

27.22.7.7.1 Card Reader Status (normal)

27.22.7.7.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.7.1.2 Conformance requirement

The Terminal shall support the EVENT: Call Card Reader Status event as defined in:

- TS 102 223 [1], clauses 4.7, 4.9, 5.2, 6.4.16, 6.8, 7.5, 8.25, 8.33, annexes F and G, clauses 8.25 and 8.7.

27.22.7.7.1.3 Test purpose

To verify that the Terminal informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The Terminal-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for Terminals with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.7.7.1.4 Method of test

27.22.7.7.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The Terminal shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.7.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD, Card reader status, Card reader 1, card reader attached, no card inserted)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	EVENT: Card Reader Status.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	Successfully.
5	User → Terminal	Insert a card in Reader	
6	Terminal → UICC	ENVELOPE: CARD READER STATUS 1.1.1a or ENVELOPE: CARD READER STATUS 1.1.1b Or ENVELOPE: CARD READER STATUS 1.1.1c Or ENVELOPE: CARD READER STATUS 1.1.1d	
7	User → Terminal	Remove the card from Reader	
8	Terminal → UICC	ENVELOPE: CARD READER STATUS 1.1.2a Or ENVELOPE: CARD READER STATUS 1.1.2b Or ENVELOPE: CARD READER STATUS 1.1.2c Or ENVELOPE: CARD READER STATUS 1.1.2d	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: UICC
- Destination device: Terminal

Event list
- Event 1: Card Reader Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	06								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1a

Logically:

Event list
- Event 1: Card Reader Status

Device identities
- Source device: Terminal
- Destination device: UICC

Card reader status
- Identity of card reader: 01
- Card reader removable: Yes
- Card reader present: Yes
- Card reader ID-1 size: Yes
- Card present in reader: Yes
- Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	79

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1b

Logically:

Event list
- Event 1: Card Reader Status

Device identities
- Source device: Terminal
- Destination device: UICC

Card reader status
- Identity of card reader: 01
- Card reader removable: Yes
- Card reader present: Yes

Card reader ID-1 size: No
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	59

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1c

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: No
Card reader present: Yes
Card reader ID-1 size: Yes
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	71

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1d

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: No
Card reader present: Yes
Card reader ID-1 size: No
Card present in reader: Yes
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	51

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2a

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal

Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: Yes
Card reader present: Yes
Card reader ID-1 size: Yes
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	39

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2b

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: Yes
Card reader present: Yes
Card reader ID-1 size: No
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	19

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2c

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: No
Card reader present: Yes
Card reader ID-1 size: Yes
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	31

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2d

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: No
Card reader present: Yes
Card reader ID-1 size: No
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	11

27.22.7.7.1.5 Test requirement

The behaviour of the test is as defined in expected Sequence 1.1.

27.22.7.7.2 Card Reader Status(detachable card reader)

27.22.7.7.2.1 Definition and applicability

See clause 3.2.2.

27.22.7.7.2.2 Conformance requirement

The Terminal shall support the EVENT: Call Card Reader Status event as defined in:

- TS 102 223 [1], clauses 4.7, 4.9, 5.2, 6.4.16, 6.8, 7.5, 8.25, 8.33, annexes F and G, clauses 8.25 and 8.7.

27.22.7.7.2.3 Test purpose

To verify that the Terminal informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The Terminal-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for Terminals with only one additional card reader.

In this particular case the card reader identifier 1 is chosen as an example.

27.22.7.7.2.4 Method of test

27.22.7.7.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The Terminal shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.7.2.4.2 Procedure

Expected Sequence 2.1 (EVENT DOWNLOAD, Detachable reader, Card reader 1, detachable card reader not attached, no card inserted)

Step	Direction	Message / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	SET UP EVENT: Card Reader Status.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	Successfully.
5	User → Terminal	Attach the Card Reader to Terminal	
6	Terminal → UICC	ENVELOPE: CARD READER STATUS 2.1.1a Or ENVELOPE: CARD READER STATUS 2.1.1b	
7	User → Terminal	Detach the Card Reader from Terminal	
8	Terminal → UICC	ENVELOPE: CARD READER STATUS 2.1.2a Or ENVELOPE: CARD READER STATUS 2.1.2b	

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1a

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: Yes
Card reader present: Yes
Card reader ID-1 size: Yes
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	39

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1b

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: Yes
Card reader present: Yes
Card reader ID-1 size: No
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	19

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2a

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: Yes
Card reader present: No
Card reader ID-1 size: Yes
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	29

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2b

Logically:

Event list
Event 1: Card Reader Status

Device identities
Source device: Terminal
Destination device: UICC

Card reader status
Identity of card reader: 01
Card reader removable: Yes
Card reader present: No
Card reader ID-1 size: No
Card present in reader: No
Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	09

27.22.7.7.2.5 Test requirement

The behaviour of the test is as defined in expected Sequence 2.1.

27.22.7.8 Language selection event

27.22.7.8.1 Language selection event (normal)

27.22.7.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.8.1.2 Conformance requirement

The Terminal shall support the EVENT: LANGUAGE SELECTION event as defined in:

- TS 102 223 [1], clauses 4.7, 5.2, 6.4.16, 6.8, 7.5, and 8.25.

27.22.7.8.1.3 Test purpose

To verify that the Terminal informs the UICC that an Event: Language selection has occurred using the ENVELOPE (EVENT DOWNLOAD - LANGUAGE SELECTION) command.

27.22.7.8.1.4 Method of test

27.22.7.8.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Card Application Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The current language shall have been set to English. Another language has to be supported, German is an example.

27.22.7.8.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - LANGUAGE SELECTION)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	Set up event list: language selection.
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	Set up event list: language selection.
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	Command performed successfully.
5	USER → Terminal	Change the language to German.	
6	Terminal → UICC	ENVELOPE: LANGUAGE SELECTION 1.1.1	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: language selection

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	07										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - LANGUAGE SELECTION 1.1.1

Logically:

Event list Language selection

Device identities
Source device: Terminal
Destination device: UICC

Language
Language 'de'→64 65 (German)

Coding:

BER-TLV:	D6	0B	19	01	07	82	02	82	81	2D	02	64
	65											

27.22.7.8.1.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.7.9 Browser termination event

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.10 Data available event

27.22.7.10.1 Data available event (related to GPRS)

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.10.2 Data available event (related to UICC server mode)

27.22.7.10.2.1 Definition and applicability

See clause 3.2.2.

27.22.7.10.2.2 Conformance requirements

The terminal shall support the class "e" commands as defined in:

- TS 102 223 [1].

Additionally the Terminal shall support ENVELOPE (EVENT DOWNLOAD - Data available).

27.22.7.10.2.3 Test purpose

To verify that the Terminal shall send an ENVELOPE (EVENT DOWNLOAD - Data available) to the UICC after the Terminal receives a packet of data coming from Client application by the BIP channel previously opened.

27.22.7.10.2.4 Method of test

27.22.7.10.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure. The UICC must have sent the SET UP EVENT LIST to the Terminal to supply a set of events (event Data available).

27.22.7.10.2.4.2 Procedure

Expected sequence 2.1 (EVENT DOWNLOAD - Data available, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1 PENDING	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1	
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1	
5	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
8	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
9	User → Terminal	Client application connection	
10	Terminal → UICC	ENVELOPE 2.2.1 (Event-Channel Status)	TCP in ESTABLISHED state
11	Terminal → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	

PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Event list
- Event 1: Data available
- Event 2: Channel Status

Coding:

BER-TLV:	D0	0D	81	03	01	05	00	82	02	81	82
	99	02	09	0A							

TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	03	01
	00										

PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Terminal

Alpha Identifier Null

Buffer
- Buffer size: 1400

UICC/terminal interface transport level
- Transport format: TCP, UICC in server mode
- Port number: 3516

Coding:

BER-TLV:	D0	14	81	03	01	40	00	82	02	81	82	05
	00	39	02	05	78	3C	03	03	0D	BC		

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: RFU

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully
- Channel status: Channel identifier 1 and TCP in LISTEN state

Buffer
- Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	41	00	39	02	05	78				

ENVELOPE: EVENT DOWNLOAD - Channel Status 2.2.1

Logically:

Event list
- Event: Channel Status

Device identities
- Source device: Terminal
- Destination device: UICC

Channel status
- Channel status: Channel 1, TCP in ESTABLISHED state, no further info can be given

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	38	02	81
	00											

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Logically:

Event list
- Event: Data available

Device identities
- Source device: Terminal
- Destination device: UICC

Channel status
- Channel status: Channel 1 open, TCP in ESTABLISHED state, no further info can be given

Channel Data Length
Channel data length: 255 Bytes available in Rx buffer

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	FF								

27.22.7.11 Channel Status event

27.22.7.11.1 Channel Status event (related to GPRS)

The test method is not defined in the present document as it depends on a present NAA.

27.22.7.11.2 Channel Status event (related to UICC server mode)

27.22.7.11.2.1 Definition and applicability

See clause 3.2.2.

27.22.7.11.2.2 Conformance requirements

The Terminal shall support the class "e" commands as defined in:

- TS 102 223 [1].

Additionally the Terminal shall support ENVELOPE (EVENT DOWNLOAD - Channel Status).

27.22.7.11.2.3 Test purpose

To verify that the Terminal shall send an ENVELOPE (EVENT DOWNLOAD - Channel Status) with connection status set to "TCP in ESTABLISHED state" to the UICC as soon as a Client application successfully establishes a connection to the TCP port.

To verify that the Terminal shall send an ENVELOPE (EVENT DOWNLOAD - Channel Status) with connection status set to "TCP in LISTEN state" to the UICC if a Client application closes the TCP connection while the BIP connection is still open.

27.22.7.11.2.4 Method of test

27.22.7.11.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator. The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.7.11.2.4.2 Procedure

Expected sequence 2.1 (EVENT DOWNLOAD - Channel Status, TCP in LISTEN state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 2.2.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 2.2.1	[EVENT: channel status]
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 2.2.1	[command performed successfully]
5	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
6	Terminal → UICC	FETCH	

Step	Direction	MESSAGE / Action	Comments
7	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
8	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
9	User → Terminal	Client application connection	
10	Terminal → UICC	ENVELOPE 2.2.1 (Event-Channel Status)	TCP in ESTABLISHED state
11	Terminal → UICC	Client application disconnection	
12	Terminal → UICC	ENVELOPE 2.1.1A (Event-Channel Status) OR ENVELOPE 2.1.1B (Event-Channel Status)	TCP in LISTEN state

PROACTIVE COMMAND: SET UP EVENT LIST 2.2.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Event list
Event 1: Channel Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	0A								

TERMINAL RESPONSE: SET UP EVENT LIST 2.2.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: UICC
Destination device: Terminal

Alpha Identifier Null
Buffer
Buffer size: 1400

UICC/terminal interface transport level
Transport format: TCP, UICC in server mode
Port number: 3516

Coding:

BER-TLV:	D0	14	81	03	01	40	00	82	02	81	82	05
	00	39	02	05	78	3C	03	03	0D	BC		

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: RFU

Device identities
Source device: Terminal
Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and TCP in LISTEN state

Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	00	82	02	82	81	83	01	00
	38	02	41	00	39	02	05	78				

ENVELOPE: EVENT DOWNLOAD - Channel Status 2.1.1A

Logically:

Event list
Event: Channel Status

Device identities
Source device: Terminal
Destination device: UICC

Channel status
Channel status: Channel 1, TCP in LISTEN state, no further info can be given

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	38	02	41
	00											

ENVELOPE: EVENT DOWNLOAD - Channel Status 2.1.1B

Logically:

Event list
Event: Channel Status

Device identities
Source device: Terminal
Destination device: UICC

Channel status
Channel status: Channel 1, TCP in LISTEN state, link dropped

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	38	02	41
	05											

Expected sequence 2.2 (EVENT DOWNLOAD - Channel Status, TCP in ESTABLISHED state)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 2.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1	[EVENT: channel status]
4	Terminal → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1	[command performed successfully]
5	UICC → Terminal	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	See initial conditions
6	Terminal → UICC	FETCH	
7	UICC → Terminal	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
8	Terminal → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1	[Command performed successfully] TCP in LISTEN state
9	User → Terminal	Client application connection	
10	Terminal → UICC	ENVELOPE 2.2.1 (Event-Channel Status)	TCP in ESTABLISHED state

ENVELOPE: EVENT DOWNLOAD - Channel Status 2.2.1

Logically:

Event list
Event: Channel Status

Device identities
Source device: Terminal
Destination device: UICC

Channel status
Channel status: Channel 1, TCP in ESTABLISHED state, no further info can be given

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	38	02	81
	00											

27.22.7.11.2.4.3 Test requirement

The terminal shall operate in the manner defined in expected sequence 2.2.

27.22.7.12 Access Technology Change event

TBD.

27.22.7.13 Local Connection event

TBD.

27.22.7.14 Network search mode change event

TBD.

27.22.7.15 Browsing status event

TBD.

27.22.8 Void

27.22.9 Handling of command number

27.22.9.1 Definition and applicability

See clause 3.2.2.

27.22.9.2 Conformance requirement

The Terminal shall support the facility as defined in TS 102 223 [1], clauses 6.5.1, 6.8 and 8.6.

27.22.9.3 Test purpose

To verify that the Terminal sends a Terminal Response with the Command number equivalent to the value in the corresponding proactive command.

27.22.9.4 Method of tests

27.22.9.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The Terminal screen shall be in its normal stand-by display.

The Terminal shall support the DISPLAY TEXT command.

27.22.9.4.2 Procedure

Expected Sequence 1.1 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.1	
2	Terminal → UICC	FETCH	
3	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.1.1	Normal priority, wait for user to clear message, unpacked, 8 bit data.
4	Terminal → USER	Display "Toolkit Test 1"	
5	USER → Terminal	Clear Message	

Step	Direction	MESSAGE / Action	Comments
6	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.1	Command performed successfully.
7	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.2	
8	Terminal → UICC	FETCH	
9	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.1.2	Normal priority, wait for user to clear message, unpacked, 8 bit data.
10	Terminal → USER	Display "Toolkit Test 2"	
11	USER → Terminal	Clear Message	
12	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.2	Command performed successfully.
13	UICC → Terminal	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.1.3	
14	Terminal → UICC	FETCH	
15	UICC → Terminal	PROACTIVE COMMAND: DISPLAY TEXT 1.1.3	Normal priority, wait for user to clear message, unpacked, 8 bit data.
16	Terminal → USER	Display "Toolkit Test 3"	
17	USER → Terminal	Clear Message	
18	Terminal → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.1.3	Command performed successfully.
19	UICC → Terminal	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: DISPLAY TEXT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 1"

Coding:

BER-TLV:	D0	1A	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	31								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.1

Logically:

Command details
- Command number: 1
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 1.1.2

Logically:

Command details
- Command number: 254
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 2"

Coding:

BER-TLV:	D0	1A	81	03	FE	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	32								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.2

Logically:

Command details
- Command number: 254
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	FE	21	80	82	02	82	81	83	01	00

PROACTIVE COMMAND: DISPLAY TEXT 1.1.3

Logically:

Command details
- Command number: 173
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: UICC
- Destination device: Display

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Toolkit Test 3"

Coding:

BER-TLV:	D0	1A	81	03	AD	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	33								

TERMINAL RESPONSE: DISPLAY TEXT 1.1.3

Logically:

Command details
- Command number: 173
- Command type: DISPLAY TEXT
- Command qualifier: normal priority, wait for user to clear message

Device identities
- Source device: Terminal
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	AD	21	80	82	02	82	81	83	01	00

27.22.9.5 Test requirement

The Terminal shall operate in the manner defined in expected sequence 1.1.

27.22.10 TERMINAL APPLICATIONS

27.22.10.1 TERMINAL APPLICATIONS (one application)

27.22.10.1.1 Definition and applicability

See clause 3.2.2.

27.22.10.1.2 Conformance requirement

The Terminal shall support the class "k" command as defined in:

- TS 102 223 [1], clauses 6.1, 7.8, 8.7, 8.87 and 8.88.

27.22.11.1.3 Test purpose

To verify that the Terminal shall inform the card of the applications present in the handset that can be granted the right to be started upon a request of the card, by sending one or several ENVELOPE (TERMINAL APPLICATIONS) to the UICC, after each start of card session and as soon as possible when any such launch-able application is added to or removed from the terminal, or de-registered dynamically from the registry.

27.22.11.1.4 Method of test

27.22.11.1.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

Service "Terminal Applications" is available in the Service Table provided by the NAA.

The elementary files are coded as Toolkit default with the following exceptions.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The 'e-mail' application is installed in the Terminal. No other "launch-able" application is present in the Terminal.

The name of the e-mail application used for these tests is set to "e-mail" as an example.

The Port number value used for these tests is set to '1111' as an example. This value is related to the Application Port number value declared by the Terminal when registering the 'e-mail' application.

27.22.11.1.4.2 Procedure

Expected Sequence 1.1 (TERMINAL APPLICATIONS, e-mail application registered as launch-able application, successful)

Step	Direction	MESSAGE / Action	Comments
1	Terminal	After the PROFILE DOWNLOAD procedure has been performed, initiate the registration of 'e-mail' application	
2	Terminal → UICC	ENVELOPE: TERMINAL APPLICATIONS 1.1.1	The terminal shall inform the card of 'e-mail' application presents in the terminal that can be granted the right to be started upon a request of the card.

ENVELOPE: TERMINAL APPLICATIONS ENVELOPE 1.1.1

Logically:

Device identities
Source device: Terminal
Destination device: UICC

Registry application
Data 1:
Application port number (2 bytes): '1111'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '00' (e-mail application) + "email" (name of application)

Last envelope 00 (Length=0)

Coding:

BER-TLV:	DC	11	82	02	82	81	71	09	11	11	04	00
	65	6D	61	69	6C	70	00					

Expected Sequence 1.2 (TERMINAL APPLICATIONS, remove or disable e-mail application, successful)

Step	Direction	MESSAGE / Action	Comments
1	USER → Terminal	Initiate the removing or disablement of 'e-mail' application	[Command performed successfully]
2	Terminal → UICC	Empty ENVELOPE (TERMINAL APPLICATIONS) 1.2.1	An empty ENVELOPE (TERMINAL APPLICATIONS) without any Registry data is sent to the UICC to indicate the launch-able 'e-mail' application has been removed or disabled in the terminal.

ENVELOPE: TERMINAL APPLICATIONS ENVELOPE 1.2.1

Logically:

Device identities
Source device: Terminal

Destination device: UICC

Last envelope 00 (Length=0)

Coding:

BER-TLV:	DC	04	82	02	82	81	70	00				

27.22.11.2 TERMINAL APPLICATIONS (several applications)

27.22.11.2.1 Definition and applicability

See clause 3.2.2.

27.22.11.2.2 Conformance requirement

The Terminal shall support the class "k" command as defined in:

- TS 102 223 [1], clauses 6.1, 7.8, 8.7, 8.87 and 8.88.

27.22.11.2.3 Test purpose

To verify that the Terminal shall inform the card of the applications present in the handset that can be granted the right to be started upon a request of the card, by sending one or several ENVELOPE (TERMINAL APPLICATIONS) to the UICC, after each start of card session and as soon as possible when any such launch-able application is added to or removed from the terminal, or de-registered dynamically from the registry.

27.22.11.2.4 Method of test

27.22.11.2.4.1 Initial conditions

The Terminal is connected to the UICC Simulator.

Service "Terminal Applications" is available in the Service Table provided by the NAA and be activated.

The elementary files are coded as Toolkit default with the following exceptions.

Prior to this test the Terminal shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The applications are installed in the Terminal.

The names of the applications used for this test are set as an example.

The Port numbers values used for this test are set as an example. These values are related to the Application Port number value declared by the Terminal when registering the applications.

27.22.11.2.4.2 Procedure

Expected Sequence 2.1(TERMINAL APPLICATIONS, severals applications (more than 243 bytes) including 2 envelopes, successful)

Step	Direction	MESSAGE / Action	Comments
1	Terminal	After the PROFILE DOWNLOAD procedure has been performed, initiate the registration of 8 applications: email, synchronization, network monitoring, video streaming, audio streaming, game, browsing and device management application.	
2	Terminal → UICC	ENVELOPE: TERMINAL APPLICATIONS 1.3.1	The terminal shall inform the card of applications are present in the terminal that can be granted the right to be started upon a request of the card.
3	Terminal → UICC	ENVELOPE: TERMINAL APPLICATIONS 1.3.2	Last envelope

ENVELOPE: TERMINAL APPLICATIONS ENVELOPE 2.1.1

Logically:

Device identities
Source device: Terminal
Destination device: UICC

Registry application
Data 1:
Application port number (2 bytes): '1111'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '00' + "email application" (name of application)
Data 2:
Application port number (2 bytes): '2222'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '01' + "synchronization application" (name of application)
Data 3:
Application port number (2 bytes): '3333'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '02' + "network monitoring application" (name of application)
Data 4:
Application port number (2 bytes): '4444'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '03' + "video streaming application" (name of application)
Data 5:
Application port number (2 bytes): '5555'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '04' + "audio streaming application" (name of application)
Data 6:
Application port number (2 bytes): '6666'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '05' + "game application" (name of application)
Data 7:
Application port number (2 bytes): '7777'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '06' + "browsing application" (name of application)

Coding:

BER-TLV:	DC	D6	82	02	82	81	71	15	11	11	04	00
	65	6D	61	69	6C	20	61	70	70	6C	69	63
	61	74	69	6F	6E	71	1F	22	22	04	01	73
	79	6E	63	68	72	6F	6E	69	7A	61	74	69
	6F	6E	20	61	70	70	6C	69	63	61	74	69
	6F	6E	71	26	33	33	04	02	6E	65	74	77
	6F	72	6B	20	6D	6F	6E	69	74	6F	72	69
	74	6F	72	69	6E	67	20	61	70	70	6C	69
	63	61	74	69	6F	6E	71	1F	44	44	04	03
	76	69	64	65	6F	20	73	74	72	65	61	6D
	69	6E	67	20	61	70	70	6C	69	63	61	74
	69	6F	6E	71	1F	55	55	04	04	61	75	64
	69	6F	20	73	74	72	65	61	6D	69	6E	67
	20	61	70	70	6C	69	63	61	74	69	6F	6E
	71	14	66	66	04	05	67	61	6D	65	20	61
	70	70	6C	69	63	61	74	69	6F	6E	71	18
	77	77	04	06	62	72	6F	77	73	69	6E	67
	20	61	70	70	6C	69	63	61	74	69	6F	6E

ENVELOPE: TERMINAL APPLICATIONS ENVELOPE 2.1.2

Logically:

Device identities
Source device: Terminal
Destination device: UICC

Registry application
Data 8:
Application port number (2 bytes): '8888'
Data Coding Scheme (1 byte): unpacked, 8 bit data
Registry content: '07' + "device management application as per OMA Device Management V1.2 specifications" (name of application)

Last envelope 00 (Length=0)

Coding:

BER-TLV:	DC	5E	82	02	82	81	71	4A	88	88	04	07
	64	65	76	69	63	65	20	6D	61	6E	61	67
	65	6D	65	6E	74	20	61	70	70	6C	69	63
	61	74	69	6F	6E	20	61	73	20	70	65	72
	20	70	65	72	20	4F	4D	41	20	44	65	76
	69	63	65	20	4D	61	6E	61	67	65	6D	65
	6E	74	20	56	31	2E	32	20	73	70	65	63
	69	66	69	63	61	74	69	6F	6E	73	70	00

Annex A (normative): Details of Test-SIM (TestSIM)

The TestSIM shall be able to present the following data:

ANSWER TO RESET

Logically:

TS (Initial character):	'3B'
T0 (Format character):	'86' (Following interface characters: TD(1), number of historical characters: 6)
TD1:	'00' (Following interface characters: none, Transfer protocol: T=0)
T1:	91
T2:	99
T3:	00
T4:	12
T5:	C1
T6:	00

Coding:

BER-TLV:	3B	86	00	91	99	00	12	C1	00

1. For a successful outcome of the command "Select MasterFile" the TestSIM shall send SW1/SW2 "9F 1B".

2. For a successful outcome of the command "Get Response with Length 1B" on the MasterFile the TestSIM shall respond:

RFU:	'00 00'
Not allocated memory:	'653 bytes'
File ID:	Master File
Type of file:	MF
RFU:	00 00 22 FF 01'
Length of following data:	14 bytes'
File characteristics:	
Clock Stop:	Not allowed
Min. frequency for GSM algorithm:	13/8 MHz
Technology identification:	3V Technology SIM
CHV1:	disabled
DFs in current directory:	2
EFs in current directory:	8
Number of CHV and admin. Codes:	3
RFU byte 18:	00
CHV1 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV1 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
CHV2 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized

Unlock CHV2 status:
- False representations remaining: 10
- RFU-bits 7-5: 000
- Secret code: Initialized

RFU bytes 23: 00
Reserved for admin. management: 00 83 00 FF
Status Words
- SW1 / SW2: Normal ending of command

Coding:

BER-TLV:	00	00	02	8D	3F	00	01	00	00	22	FF	01
	0E	9B	02	08	03	00	83	8A	83	8A	00	00
	83	00	FF	90	00							

1. For a successful outcome of the command "Select GSM" the TestSIM shall send SW1/SW2 "9F 1B".
2. For a successful outcome of the command "Select PLMN" the TestSIM shall send SW1/SW2 "9F 0F".
3. EF_{PLMN} Information:

RFU-Bytes 1-2: 00 00
File size: 102 bytes
File ID: 6F30
Type of File: Elementary file
Byte 8
- RFU: 00

Access Condition:
- UPDATE: CHV1
- READ/SEEK: CHV1
- RFU-bits 4-1: 1111
- INCREASE: NEVER
- INVALIDATE: NEVER
- REHABILITATE: NEVER

File Status:
- Invalidation status: File not invalidated
- Readable/updateable: Not readable/updatable when invalidated
- RFU-bits 8-4, 2: 0000 0

Length of following data: 2 bytes
Structure: Transparent
Length of record: 00

The initial coding of the EF_{PLMN} shall be FF FF... FF (logically: Empty).

Annex B (normative): Details of terminal profile support

Table E.1: TERMINAL PROFILE support

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
1	1.1	Profile Download	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Pro_Dvnl
2	1.2	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
3	1.3	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
4	1.4	Menu selection	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Menu_sel
5	1.5	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
6	1.6	Timer expiration	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_TExpir
7	1.7	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
8	1.8	Bit=1 if Call control by NAA is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_CC
9	2.1	Command result	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Cmd_Res
10	2.2	Call Control by NAA	TS 102 223 [1], clause 5.2	Rel-4	M		PD_CC
11	2.3	Bit=1 if Call control by NAA is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_CC
12	2.4	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
13	2.5	Bit=1 if Call control is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_CC
14	2.6	UCS2 Entry supported	TS 102 223 [1], clause 5.2	Rel-4	C203		PD_UCS2_entry
15	2.7	UCS2 Display supported	TS 102 223 [1], clause 5.2	Rel-4	C203		PD_UCS2_Display
16	2.8	Bit=1 if Display Text supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Display_Text
17	3.1	DISPLAY TEXT	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Display_Text
18	3.2	GET INKEY	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Get_Inkey
19	3.3	GET INPUT	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Get_Input
20	3.4	MORE TIME	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_More_Time
21	3.5	PLAY TONE	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Play_Tone

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
22	3.6	POLL INTERVAL	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Poll_interval
23	3.7	POLLING OFF	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Polling_Off
24	3.8	REFRESH	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Refresh
25	4.1	SELECT ITEM	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Select_Item
26	4.2	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
27	4.3	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
28	4.4	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
29	4.5	SET UP CALL	TS 102 223 [1], clause 5.2	Rel-4	M		PD_SetUp_Call
30	4.6	SET UP MENU	TS 102 223 [1], clause 5.2	Rel-4	M		PD_SetUp_Menu
31	4.7	PROVIDE LOCAL INFORMATION (LOCI & IMEI)	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	M		PD_Provide_Local
32	4.8	PROVIDE LOCAL INFORMATION (NMR)	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Provide_Local_NMR
33	5.1	SET UP EVENT LIST	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Setup_Evt_List
34	5.2	Event: MT call	TS 102 223 [1], clause 5.2	Rel-4	M		PD_MT_Call
35	5.3	Event: Call connected	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Call_Conn
36	5.4	Event: Call disconnected	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Call_Disc
37	5.5	Event: Location status	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Loc_Status
38	5.6	Event: User activity	TS 102 223 [1], clause 5.2	Rel-4	M		PD_User_Act
39	5.7	Event: Idle screen available	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Idle_Scr_Avail
40	5.8	Event: Card reader status	TS 102 223 [1], clause 5.2	Rel-4	C206		PD_Evt_Rdr_Status
41	6.1	Event: Language selection	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Lang_Select
42	6.2	Event: Browser Termination	TS 102 223 [1], clause 5.2	Rel-4	C212		PD_Browser_Term
43	6.3	Event: Data available	TS 102 223 [1], clause 5.2	R4	C223		PD_Data_Avail
44	6.4	Event: Channel status	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Evt_Ch_Status
45	6.5	Event: Access Technology Change	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Evt_ATC
46	6.6	Event: Display Parameters Changed	TS 102 223 [1], clause 5.2	Rel-4	C218		PD_Disp_Resiz
47	6.7	Event: Local Connexion	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Evt_LC

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
48	6.8	Event: Network Search Mode Change	TS 102 223 [1], clause 5.2	Rel-6	M		PD_Evt_NSMC
49	7.1	POWER ON CARD	TS 102 223 [1], clause 5.2	Rel-4	C206		PD_C_On
50	7.2	POWER OFF CARD	TS 102 223 [1], clause 5.2	Rel-4	C206		PD_C_Off
51	7.3	PERFORM CARD APDU	TS 102 223 [1], clause 5.2	Rel-4	C206		PD_C_APDU
52	7.4	GET READER STATUS (Card reader status)	TS 102 223 [1], clause 5.2	Rel-4	C206		PD_Get_Rdr_Status
53	7.5	GET READER STATUS (Card reader identifier)	TS 102 223 [1], clause 5.2	Rel-4	C208		PD_Get_Rdr_Id
54	7.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_54
55	7.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_55
56	7.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_56
57	8.1	TIMER MANAGEMENT (start, stop)	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Timer_Mgt_Start_Stop
58	8.2	TIMER MANAGEMENT (get current value)	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Timer_Val
59	8.3	PROVIDE LOCAL INFORMATION (date, time and time zone)	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Provide_Local_D_Time
60	8.4	Bit=1 if Get Inkey is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Get_Inkey
61	8.5	SET UP IDLE MODE TEXT	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Stup_Id_Mod_Txt
62	8.6	RUN AT COMMAND (i.e. class "b" is supported)	TS 102 223 [1], clause 5.2	Rel-4	C209		PD_Run_AT
63	8.7	Bit=1 if Set UpCall is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_SetUp_Call
64	8.8	Bit=1 if Call Control by NAA is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_CC
65	9.1	Bit=1 if Display Text is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Display_Text
66	9.2	SEND DTMF command	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Send_DTMF
67	9.3	Bit=1 if Provide Local Information (NMR) is supported	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Provide_Local
68	9.4	PROVIDE LOCAL INFORMATION (language)	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Provide_Local_LS
69	9.5	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
70	9.6	LANGUAGE NOTIFICATION	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Lang_Notif
71	9.7	LAUNCH BROWSER	TS 102 223 [1], clause 5.2	Rel-4	C212		PD_Launch_Brws

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
72	9.8	PROVIDE LOCAL INFORMATION (Access Technology)	TS 102 223 [1], clause 5.2	Rel-4	M		PD_Provide_Local_AT
73	10.1	Soft keys support for SELECT ITEM	TS 102 223 [1], clause 5.2	R4	C213		PD_Softkey_Select_Item
74	10.2	Soft Keys support for SET UP MENU	TS 102 223 [1], clause 5.2 3GPP TS 11.14 [11], clause 5	Rel-4	C213		PD_Softkey_SetUp _Menu
75	10.3	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_75
76	10.4	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_76
77	10.5	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_77
78	10.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_78
79	10.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_79
80	10.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_80
81	11.1	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
82	11.2	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
83	11.3	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
84	11.4	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
85	11.5	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
86	11.6	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
87	11.7	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
88	11.8	Maximum number of soft keys available ('FF' = RFU)	TS 102 223 [1], clause 5.2	Rel-4	C214		PD_Max_SoftKey
89	12.1	OPEN CHANNEL	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Open_Ch
90	12.2	CLOSE CHANNEL	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Close_Ch
91	12.3	RECEIVE DATA	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Rx_Data
92	12.4	SEND DATA	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Send_Data
93	12.5	GET CHANNEL STATUS	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Get_Ch_Status
94	12.6	SERVICE SEARCH	TS 102 223 [1], clause 5.2	Rel-4	C224		PD_Serv_Search

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
95	12.7	GET SERVICE INFORMATION	TS 102 223 [1], clause 5.2	Rel-4	C224		PD_Get_Serv_Info
96	12.8	DECLARE SERVICE	TS 102 223 [1], clause 5.2	Rel-4	C224		PD_Declare_Serv
97	13.1	CSD supported by Terminal	TS 102 223 [1], clause 5.2	Rel-4	C207		PD_CSD
98	13.2	GPRS supported by Terminal	TS 102 223 [1], clause 5.2	Rel-4	C222		PD_GPRS
99	13.3	Bluetooth supported by terminal	TS 102 223 [1], clause 5.2	Rel-4	C225		PD_BT
100	13.4	IrDA Supported by terminal	TS 102 223 [1], clause 5.2	Rel-4	C226		PD_IrDA
101	13.5	RS232 Supported by terminal	TS 102 223 [1], clause 5.2	Rel-4	C227		PD_RS232
102	13.6	Number of channels supported by Terminal	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Nb_Channel
103	13.7	Number of channels supported by Terminal	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Nb_Channel
104	13.8	Number of channels supported by Terminal	TS 102 223 [1], clause 5.2	Rel-4	C223		PD_Nb_Channel
105	14.1	Number of characters supported down the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char
106	14.2	Number of characters supported down the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char
107	14.3	Number of characters supported down the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char
108	14.4	Number of characters supported down the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char
109	14.5	Number of characters supported down the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char
110	14.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_110
111	14.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_111
112	14.8	Screen Sizing Parameters	TS 102 223 [1], clause 5.2	Rel-4	C216		PD_Screen_Siz
113	15.1	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp
114	15.2	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
115	15.3	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp
116	15.4	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp
117	15.5	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp
118	15.6	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp
119	15.7	Number of characters supported across the Terminal display	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Nb_Char_Disp
120	15.8	Variable size fonts Supported	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Var_Font
121	16.1	Display can be resized	TS 102 223 [1], clause 5.2	Rel-4	C218		PD_Disp_Resiz
122	16.2	Text Wrapping supported	TS 102 223 [1], clause 5.2	Rel-4	C218		PD_Txt_Wrap
123	16.3	Text Scrolling supported	TS 102 223 [1], clause 5.2	Rel-4	C218		PD_Txt_Scroll
124	16.4	Text attributes supported	TS 102 223 [1], clause 5.2	Rel-5	C228		PD_Text_Attrib
125	16.5	RFU	3GPP TS 11.14 [11], clause 5	Rel-4	X		PD_RFU_125
126	16.6	Width reduction when in a menu	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Width_Reduc
127	16.7	Width reduction when in a menu	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Width_Reduc
128	16.8	Width reduction when in a menu	TS 102 223 [1], clause 5.2	Rel-4	C217		PD_Width_Reduc
129	17.1	TCP, UICC in client mode	TS 102 223 [1], clause 5.2	Rel-4	C220		PD_TCP
130	17.2	UDP, UICC in client mode	TS 102 223 [1], clause 5.2	Rel-4	C221		PD_UDP
131	17.3	TCP, UICC server mode	TS 102 223 [1], clause 5.2	Rel-7	C257		PD_TCP_UICC_ServerMode
132	17.4	TCP, UICC in client mode, local connection	TS 102 223 [1], clause 5.2	Rel-7	C258		PD_TCP_Terminal_ServerMode
133	17.5	UDP, UICC in client mode, local connection	TS 102 223 [1], clause 5.2	Rel-7	C259		PD_UDP_Terminal_ServerMode
134	17.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_134
135	17.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_135
136	17.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_136
137	18.1	DISPLAY TEXT (Variable time out)	TS 102 223 [1], clause 5.2	Rel-4	C229		

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
138	18.2	GET INKEY (help is supported while waiting for immediate response or variable time out)	TS 102 223 [1], clause 5.2	Rel-4	C231		
139	18.3	USB supported by Terminal	TS 102 223 [1], clause 5.2	Rel-4	C232		
140	18.4	GET INKEY (Variable time out)	TS 102 223 [1], clause 5.2	Rel-4	C229		
141	18.5	PROVIDE LOCAL INFORMATION (ESN)	See 3GPP2	Rel-4	X		Reserved
142	18.6	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-5	X		Reserved
143	18.7	PROVIDE LOCAL INFORMATION (IMEISV)	TS 102 223 [1], clause 5.2	Rel-6	M		
144	18.8	PROVIDE LOCAL INFORMATION (search mode change)	TS 102 223 [1], clause 5.2	Rel-6	M		
145	19.1	Reserved by TIA/EIA-136 (Protocol Version)	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
146	19.2	Reserved by TIA/EIA-136 (Protocol Version)	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
147	19.3	Reserved by TIA/EIA-136 (Protocol Version)	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
148	19.4	Reserved by TIA/EIA-136 (Protocol Version)	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
149	19.5	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_149
150	19.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_150
151	19.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_151
152	19.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_152
153	20.1	Reserved by TIA/EIA/IS-820	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
154	20.2	Reserved by TIA/EIA/IS	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
155	20.3	Reserved by TIA/EIA/IS	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
156	20.4	Reserved by TIA/EIA/IS	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
157	20.5	Reserved by TIA/EIA/IS	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
158	20.6	Reserved by TIA/EIA/IS-820	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
159	20.7	Reserved by TIA/EIA/IS-820	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved
160	20.8	Reserved by TIA/EIA/IS-820	TS 102 223 [1], clause 5.2	Rel-4	X		Reserved

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
161	21.1	WML browser supported	TS 102 223 [1], clause 5.2	Rel-6	C233		PD_WML
162	21.2	XHTML browser supported	TS 102 223 [1], clause 5.2	Rel-6	C234		PD_XHTML
163	21.3	HTML browser supported	TS 102 223 [1], clause 5.2	Rel-6	C235		PD_HTML
164	21.4	CHTML browser supported	TS 102 223 [1], clause 5.2	Rel-6	C236		PD_CHTML
165	21.5	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_165_
166	21.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_166
167	21.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_167
168	21.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_168
169	22.1	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-6	X		Reserved
170	22.2	PROVIDE LOCAL INFORMATION (Battery state) if class 'g' is supported	TS 102 223 [1], clause 5.2	Rel-6	TBD		
171	22.3	PLAY TONE (Melody tones & themed tones supported)	TS 102 223 [1], clause 5.2	Rel-6	TBD		
172	22.4	Multi-media Calls in SET UP CALL supported (if class 'h' supported)	TS 102 223 [1], clause 5.2	Rel-6	TBD		
173	22.5	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-6	X		Reserved
174	22.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_174
175	22.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_175
176	22.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_176
177	23.1	SET FRAMES supported (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C237		PD_Frames
178	23.2	GET FRAMES STATUS supported (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C237		PD_Frames
179	23.3	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_179
180	23.4	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_180
181	23.5	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_181
182	23.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_182
183	23.7	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-6	X		Reserved
184	23.8	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-6	X		Reserved
185	24.1	Maximum number of frames supported (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C256		PD_Max_Frames

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
186	24.2	Maximum number of frames supported (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C256		PD_Max_Frames
187	24.3	Maximum number of frames supported (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C256		PD_Max_Frames
188	24.4	Maximum number of frames supported (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C256		PD_Max_Frames
189	24.5	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_189
190	24.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_190
191	24.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_191
192	24.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_192
193	25.1	Event: browsing status	TS 102 223 [1], clause 5.2	Rel-6	TBD		
194	25.2	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_194
195	25.3	Event Frame parameters changed (if class 'i' supported)	TS 102 223 [1], clause 5.2	Rel-6	C237		PD_Event_Frames
196	25.4	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_196
197	25.5	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_197
198	25.6	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_198
199	25.7	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_199
200	25.8	RFU	TS 102 223 [1], clause 5.2	Rel-4	X		PD_RFU_200
201	26.1	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_201
202	26.2	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_202
203	26.3	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_203
204	26.4	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_204
205	26.5	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_205
206	26.6	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_206
207	26.7	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_207
208	26.8	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_208
209	27.1	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_209
210	27.2	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_210
211	27.3	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_211
212	27.4	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_212
213	27.5	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_213
214	27.6	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_214
215	27.7	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_215
216	27.8	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_216
217	28.1	Alignment left supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C243		PD Text_Attrib_Left
218	28.2	Alignment center supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C244		PD Text_Attrib_Cent

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
219	28.3	Alignment right supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C245		PD Text_Attrib_Right
220	28.4	Font size normal supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C246		PD Text_Attrib_Norm
221	28.5	Font size large supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C247		PD Text_Attrib Large
222	28.6	Font size small supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C248		PD Text_Attrib Small
223	28.7	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_223
224	28.8	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_224
225	29.1	Style normal supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C249		PD Text_Attrib Styl_Norm
226	29.2	Style bold supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C250		PD_Text_Attrib Styl_Bold
227	29.3	Style italic supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C251		PD Text_Attrib Styl_Italic
228	29.4	Style underlined supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C252		PD Text_Attrib Styl_Underl
229	29.5	Style strikethrough supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C253		PD Text_Attrib Styl_Strik
230	29.6	Style text foreground colour supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C254		PD Text_Attrib Styl_Text_Fore
231	29.7	Style text background colour supported by Terminal	TS 102 223 [1], clause 5.2	Rel-6	C255		PD Text_Attrib Styl_Text_Back
232	29.8	RFU	TS 102 223 [1], clause 5.2	Rel-6	X		PD_RFU_224
233	30.1	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-7	TBD		
234	30.2	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-7	TBD		
235	30.3	TERMINAL APPLICATIONS(i.e. class "k" is supported)	TS 102 223 [1], clause 5.2	Rel-7	C260		PD_Terminal_Applications
236	30.4	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-7	TBD		
237	30.5	ACTIVATE	TS 102 223 [1], clause 5.2	Rel-7	TBD		
238	30.6	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-7	TBD		
239	30.7	PROVIDE LOCAL INFORMATION (Broadcast Network Information) if class "n" is suppported	TS 102 223 [1], clause 5.2	Rel-7	TBD		
240	30.8	Reserved by 3GPP	TS 102 223 [1], clause 5.2	Rel-8	TBD		

C201	[Void]	-- [Void]
C202	[Void]	-- [Void]
C203	IF A.1/3 THEN M	-- O_Ucs2_Entry
C204	IF A.1/15 THEN M	-- O_Ucs2_Disp
C205	[Void]	-- [Void]
C206	IF A.1/7 THEN M	-- O_Dual_Slot
C207	IF A.1/12 THEN M	-- O_BIP_CSD
C208	IF (A.1/7 AND A.1/8) THEN M	-- O_Dual_Slot AND O_Detach_Rdr
C209	IF A.1/9 THEN M	-- O_Run_At
C210	[Void]	-- [Void]
C211	[Void]	-- [Void]
C212	IF A.1/10 THEN M	-- O_LB
C213	IF A.1/11 THEN M	-- O_Softkey
C214	IF C213 THEN bit values "0" / "1" allowed	-- O_Softkey (parameters)
C215	[Void]	-- [Void]
C216	IF A.1/13 THEN M	-- O_Scr_Siz
C217	IF C216 THEN bit values "0" / "1" allowed	-- O_Scr_Siz (parameters)
C218	IF A.1/14 THEN M	-- O_Scr_Resiz
C219	IF C218 THEN bit values "0" / "1" allowed	-- O_Scr_Resiz (parameters)
C220	IF A.1/18 THEN M	-- O_TCP
C221	IF A.1/17 THEN M	-- O_UDP
C222	[Void]	-- [Void]
C223	IF (C207 OR C222) THEN M	-- O_BIP
C224	IF (C223 AND A.1/26) THEN M	-- O_BIP AND O_BIP_Local
C225	IF (C224 AND A.1/27) THEN M	-- O_BIP_BT
C226	IF (C224 AND A.1/28) THEN M	-- O_BIP_IrDA
C227	IF (C224 AND A.1/29) THEN M	-- O_BIP_RS232
C228	IF (A.1/44 OR A.1/45 OR A.1/46 OR A.1/47 OR A.1/48 OR A.1/49 OR A.1/50 OR A.1/51 OR A.1/52 OR A.1/53 OR A.1/54 OR A.1/55 OR A.1/56) THEN M	-- O_TAT_AL OR O_TAT_AC OR O_TAT_AR OR O_TAT_FSN OR O_TAT_FSL OR O_TAT_FSS OR O_TAT_SN OR O_TAT_SB OR O_TAT_SI OR O_TAT_SU OR O_TAT_SS OR O_TAT_STFC OR O_TAT_STFB
C229	IF A.1/24 THEN M	-- O_Duration
C230	IF A.1/23 THEN M	-- O_Imm_Resp
C231	IF (C229 OR C230) AND A.1/5 THEN M	-- O_Help AND (O_Duration OR O_Imm_Resp)
C232	IF A.1/30 THEN M	-- O_USB
C233	IF A.1/31 THEN M	-- O_WML
C234	IF A.1/32 THEN M	-- O_XHTML
C235	IF A.1/33 THEN M	-- O_HTML
C236	IF A.1/34 THEN M	-- O_CHTML
C237	IF A.1/37 THEN M	-- O_Frames
C238	[Void]	-- [Void]
C239	IF A.1/35 THEN M	-- O_Batt
C240	IF A.1/36 THEN M	-- O_Xmedia Call
C241	IF A.1/29 THEN M	-- O_Tones
C242	[Void]	-- [Void]
C243	IF A.1/44 THEN M	-- O_TAT_AL
C244	IF A.1/45 THEN M	-- O_TAT_AC
C445	IF A.1/46 THEN M	-- O_TAT_AR
C246	IF A.1/47 THEN M	-- O_TAT_FSN
C247	IF A.1/48 THEN M	-- O_TAT_FSL
C248	IF A.1/49 THEN M	-- O_TAT_FSS
C249	IF A.1/50 THEN M	-- O_TAT_SN
C250	IF A.1/51 THEN M	-- O_TAT_SB
C251	IF A.1/52 THEN M	-- O_TAT_SI
C252	IF A.1/53 THEN M	-- O_TAT_SU
C253	IF A.1/54 THEN M	-- O_TAT_SS
C254	IF A.1/55 THEN M	-- O_TAT_STFC
C255	IF A.1/56 THEN M	-- O_TAT_STFB
C256	IF C237 THEN M for at least one of the bits 1 - 4 of byte 24	-- O_Frames
C257	IF A.1/58 THEN M	-- O_TCP_UICC_ServerMode
C258	IF A.1/61 THEN M	-- O_TCP_Terminal_ServerMode
C259	IF A.1/62 THEN M	-- O_UDP_Terminal_ServerMode
C260	IF A.1/63 THEN M	-- O_Terminal_Applications

Comments:
This static requirement for the TERMINAL PROFILE is specifying the bit coding of this command. In the support column a "Yes" (or "Y" or "y") means bit coding "1" and a "No" (or "N" or "n") and "X" means bit coding "0" in the command.

Annex C (informative): Bibliography

- ETSI TS 102 221: "Smart Cards; UICC-Terminal interface; Physical and logical characteristics".

Annex D (informative): Change history

The table below indicates all change requests that have been incorporated into the present document since it was created by EP SCP.

Change history								
Date	**Meeting**	**Doc**	**CR**	**Rev**	**Cat**	**Subject/Comment**	**Old**	**New**
2005-05	SCP#21	SCP-050135				spec was approved during SCP-Plenary#21	2.0.0	6.0.0
2005-09	SCP#22	SCP-050298	001		F	Essential corrections in display icons Setup Menu and Select Item	6.0.0	6.1.0
		SCP-050299	002		F	Correction of option, applicability and terminal profile support tables		
		SCP-050300	003		F	Correction to UCS2 Tests		
2005-12	SCP#23	SCP-050495	004		F	Essential corrections of Set Up Menu test	6.1.0	6.2.0
		SCP-050496	005		F	TS 102 384: Essential corrections to Select Item (icons support)		
		SCP-050497	006		F	Essential correction of applicability table		
		SCP-050499	007		F	Essential correction of replacing USIM/SIM related application to a generic application		
2006-07	SCP#26	SCP-060297	009		F	Essential correction of IMEISV coding for the Provide Local Information	6.2.0	6.3.0
		SCP-060298	010		F	Essential correction of Language Selection Event test		
		SCP-060299	011		F	Essential correction of Set Up Menu - Text attribute tests		
		SCP-060300	012		F	Essential correction of RUN AT Command for text attribute tests		
		SCP-060301	013		F	Essential correction of tables B.1 and E.1		
		SCP-060302	014		F	Essential correction of 27.22.4.8.7, seq. 7.1		
		SCP-060303	015		F	Essential correction of 27.22.4.9.10, seq. 10.1		
		SCP-060304	016		F	Essential correction of Set Up Idle Mode Text for text attribute tests		
		SCP-060305	017		F	Collection of essential corrections required for the split of 3GPP TS 31.124		
		SCP-060306	018		F	Essential correction of general test case applicability		
2006-09	SCP#27	SCP-060479	019		F	Essential correction of RUN AT Command for text attribute tests	6.3.0	6.4.0
		SCP-060480	020		F	Corrections in the interpretation of Katakana Character		
		SCP-060481	021		F	Correction of various typographical errors		
		SC-P060482	022		F	Corrections in SET UP MENU tests		
		SCP-060483	023		F	Essential correction of GET INPUT test		
		SCP-060484	024		F	Correction of GET INKEY test		
2007-01	SCP#29	SCP-07066	025		F	Essential correction to 27.22.4.8.7	6.4.0	6.5.0
		SCP-07066	026		F	Essential correction to Get Inkey - Variable timeout test		
2008-01	SCP#35	SCP-080053	027		F	Correction of DISPLAY TEXT (Variable Time out) test	6.5.0	6.6.0
2008-07	SCP#38	SCP-080338	029		F	Essential correction of test 27.22.4.15 Seq. 1.11	6.5.0	6.6.0
2008-07	SCP#38	SCP-080338	028		B	Addition of UICC server mode test cases	6.6.0	7.0.0
2010-03	SCP#44	SCP(10)0010	030		F	Corrections to BIP - UICC in server mode tests	7.0.0	7.1.0
2010-10	SCP#46	SCP(10)0220	032		F	Essential correction of test 27.22.4.9.3	7.1.0	7.2.0
2010-10	SCP#47	SCP(11)0009	033		F	UICC Server Mode test cases: addition of buffer size option	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0010	034		F	BIP - UICC in server mode tests: correction of Event Download - Channel Status Envelopes	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0011	035		F	Removal of UICC Server Mode test OPEN CHANNEL 6.3	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0012r1	036	1	F	Correction of GET CHANNEL STATUS (related to UICC server mode) test cases	7.2.0	7.3.0

Change history								
Date	Meeting	Doc	CR	Rev	Cat	Subject/Comment	Old	New
2010-10	SCP#47	SCP(11)0013	037		F	Correction of Channel Status event (related to UICC server mode) test case	7.2.0	7.3.0
2011-03	SCP#48	SCP(11)0099	038		F	Introduction to Launch application envelop and Open channel Terminal mode tests	7.2.0	7.3.0

History

Document history		
V7.0.0	November 2009	Publication
V7.1.0	April 2010	Publication
V7.2.0	January 2011	Publication
V7.3.0	April 2011	Publication
V7.3.0	September 2011	Publication